Geography students at Sacramento State explore Earth's natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography's approach emphasizes Earth's spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

Students work with quantitative and qualitative data from a variety of sources, including published censuses and maps, aerial imagery, field and lab work, surveys, and interviews. They use a variety of tools, including Global Positioning Systems (GPS), Geographic Information Systems (GIS), and other computer applications to collect, display, and analyze spatial data. Geography students study and address complex issues, especially those with a human-environment interface, such as climate change, resource management, urban growth and design, globalization, immigration, ethnic identity, and territorial conflict. Geographical understanding is applied at different scales, from the local to the global, and regional expertise is cultivated.

Lower division offerings in physical geography, cultural geography, and geographical techniques introduce students to the discipline. At the upper division level, students can choose among regional classes, topical classes on subjects from meteorology to transportation, and technique classes that include GIS, map making, quantitative methods, remote sensing, and field work. Majors select a concentration in a geographic subfield. Although not required, the department encourages students to take elective courses and/or pursue a minor complementary to their geographical interests. It also encourages and facilitates students going on Education Abroad.

Degree Programs

BA in Geography (Geographic Information Systems and Analysis) (http://catalog.csus.edu/colleges/natural-sciences-mathematics/geography/ba-in-geography-geographic-information-systems-and-analysis/)

BA in Geography (Human Geography) (http://catalog.csus.edu/colleges/natural-sciences-mathematics/geography/ba-in-geography-human-geometry/)

BA in Geography (Metropolitan Area Planning) (http://catalog.csus.edu/colleges/natural-sciences-mathematics/geography/ba-in-geography-metropolitan-area-planning/)

BA in Geography (Physical Geography) (http://catalog.csus.edu/colleges/natural-sciences-mathematics/geography/ba-in-geography-physical-geography/)

Minor in Geography (http://catalog.csus.edu/colleges/natural-sciences-mathematics/geography/Minor-in-geography/)

Minor in Geographic Information Systems (http://catalog.csus.edu/colleges/natural-sciences-mathematics/geography/Minor-in-geographic-information-systems/)

Certificate in Pre-Planning (Metropolitan Planning or Resource Planning) (http://catalog.csus.edu/colleges/natural-sciences-mathematics/geography/certificate-in-pre-planning/)

Special Features

- Numerous internships and jobs in the Sacramento area, including many with state and local government
- Many opportunities for field work in a variety of settings
- A senior project class in which each student conducts his/her own research
- A small major allowing for lots of interaction with faculty and fellow students, including attendance at state and regional professional meetings
- Various pathways to complete the major, providing flexibility and the opportunity to make efficient progress toward graduation

Career Possibilities

Geographer · Cartographer · Climatologist · Resource Scientist · Meteorologist · Geospatial Intelligence Professional · Environmental Scientist · Geographic Information System Specialist · Geographic Consultant · Surveyor · Sustainability Coordinator · Water Resources Analyst · Redevelopment Specialist · Environmental Planner · Energy Analyst · Foreign Area Specialist · Land Economist · Recreation Planner · Locational Analyst · Environmental Education Specialist · Conservationist · Urban Planner · Transportation Planner · Aerial Photo Interpreter · Remote Sensing Specialist · Community Development Specialist · Land Use Planner · Demographer · Cultural Resources Manager · Air Resources Specialist · Real Estate Research Analyst · Pedestrian and Bicycle Advocate · Teacher · Recycling Coordinator · Route Planner · Habitat Manager

Contact Information

Thomas Krabacher, Department Chair
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(916) 278-6109
Department of Geography Website (http://www.csus.edu/geoj)

Faculty

ARPAGIAN, JASMINE

GERVAIS, BRUCE R.

KLIMASZEWSKI-PATTERSON, ANNA

KRABACHER, THOMAS S.

MOLANA, HANIEH

OBERLE, PATRICK

SCHMIDTLEIN, MATHEW C.

WANKET, JAMES A.
GEOG 1. Physical Geography: The Distribution of Natural Phenomena. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Introductory study of the distribution over the face of the earth of selected aspects of climate, plant cover, soils, and landforms and of processes and conditions giving rise to these distributions. The use of maps as communicative devices in comparative analysis and study of distribution and processes.

GEOG 2. Cultural Geography. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth's surface.

GEOG 2H. Cultural Geography - Honors. 3 Units
Prerequisite(s): Open to Honors students only.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth's surface.

Note: This is a special offering designed as part of the G.E. Honors program.

GEOG 3. Introduction to Maps and Geographic Technologies. 3 Units
Term Typically Offered: Spring only

Introduction to maps, map concepts, and geographic technologies. Maps are the most effective way to communicate spatial data, and introduces students to the quickly changing world of maps (both hard-copy and digital) and geographic technologies including map and aerial photograph interpretation, spreadsheet operations, introductory statistics, global positioning systems (GPS), Internet mapping, satellite and aerial images, and geographic information systems (GIS) that aid in data collection, analysis, and presentation. Lecture two hours; laboratory two hours.

GEOG 5. Violent Weather/Changing Atmosphere. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to meteorological and climatological principles and concepts. These principles will be used to examine severe atmospheric phenomena, including hurricanes, tornadoes, thunderstorms, lightning, destructive winds, severe storms, heat waves, droughts and floods, particularly in relation to human-caused climate change and the effects of these phenomena on humanity.

GEOG 10. Themes In World Geography. 3 Units
Prerequisite(s): Junior or Senior class standing or instructor permission.
Term Typically Offered: Fall, Spring

Study of the content of geography with a consideration of basic concepts and methods. Emphasis is on patterns and relationships of the elements and manifestations of physical and cultural geography, including both topical and regional discussions.

GEOG 101. Introduction to Maps and Geographic Technologies. 3 Units
Prerequisite(s): GEOG 2H or instructor permission.
Term Typically Offered: Fall

Preparation of maps and diagrams, emphasizing thematic map design using various mapping and design programs. Detailed study of important map projections. Passing score on ELM exam recommended. Lecture one hour, laboratory six hours.

GEOG 102. Ideas and Skills in Geography. 3 Units
Prerequisite(s): GEOG 1 or GEOG 2 or GEOG 3 or GEOG 11.
Term Typically Offered: Fall only

Study and discussion of geographic ideas, including the history of the discipline. Introduction to library resources appropriate to geographic inquiry. Practice in geographic descriptive and analytical writing and research. Extensive use of maps. Required of Geography majors in the junior year. Lecture three hours.

GEOG 105. Computer Cartography. 3 Units
Prerequisite(s): GEOG 109 or instructor permission.
Term Typically Offered: Fall only

Preparation of maps and diagrams, emphasizing thematic map design using various mapping and design programs. Detailed study of important map projections. Passing score on ELM exam recommended. Lecture one hour, laboratory six hours.

GEOG 107. Remote Sensing. 3 Units
Term Typically Offered: Spring only

Aerial photographs and scanned satellite images, emphasis on the former. Topics include the electromagnetic spectrum, cameras, films, image geometry as related to planimetric and topographic mapping, multispectral techniques, and interpretation of imagery, emphasizing land use and landforms. Lecture two hours; laboratory three hours.

GEOG 109. Geographic Information Systems. 3 Units
Term Typically Offered: Fall, Spring, Summer

Introduction to GIS, including history and overview of current applications; the nature of spatial data; geographic data structures, acquisition, analysis, and display of geographic data. Lab exercises use various computers and include both raster- and vector-based GIS systems. Lecture two hours; laboratory three hours.

GEOG 110. Advanced Geographic Information Systems. 3 Units
Prerequisite(s): GEOG 109 or instructor permission.
Term Typically Offered: Fall only

Builds on the introduction to the hardware, software and operations of GIS offered with the previous courses, providing the essentials required by a beginning GIS analyst or applications support specialist. Emphasis will be placed on problem solving strategies in the context of GIS projects.
GEOG 111.  Elements Of Meteorology. 3 Units
Prerequisite(s): GEOG 1 or instructor permission.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Basic concepts of weather and weather elements: structure and general circulation of the atmosphere, earth's heat and water balance, precipitation, air masses and fronts, air pollution meteorology. Some micrometeorological concepts with application to air pollution, agriculture, and similar problems.

GEOG 113.  Climate. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Study of the distribution of heat and moisture over the earth's surface. Basic processes by which heat and moisture acquire unequal distributions in space and time. Classification of climate. Climatic change. Climate models.

GEOG 115.  Biogeography. 3 Units
Prerequisite(s): GEOG 1 or instructor permission
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Introduction to the geographic distribution of life. Communities and biomes, changing continents and climates, dispersal, colonization, extinction, life on islands, and past and present human impacts are examined.
Note: Field trip required.

Field trip(s) may be required.

GEOG 116.  Global Climate Change. 3 Units
Prerequisite(s): GEOG 1 or instructor permission
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Spring only

Study of past climate change and the techniques with which they are reconstructed. Focus on the various temporal scales at which climate change operates. Spatial variability of past, present and future climate changes. Anthropogenic climate change in the context of natural climate variability.

GEOG 117.  Landforms. 3 Units
Prerequisite(s): GEOG 1 or instructor permission
Term Typically Offered: Fall only

Study of the surface forms of the land with particular attention to their distribution and to the accompanying distribution of natural forces and processes which have brought the landforms into being. Study of landforms in the context of Quaternary environmental change. Identification and analysis of landforms using maps and other spatial data. Lecture three hours.

GEOG 118.  Earth Transformed. 3 Units
Term Typically Offered: Fall, Spring

Explores the evolving human role in transforming Earth's physical environments. Topics range from prehistoric extinction's to modern environmental problems in select regions. Emphasis is placed on wide-ranging effects of resource use and disposal, with particular reference to atmosphere and biological problems and sustainable solutions.

GEOG 119.  Visualizing Global Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Using current geospatial technologies, such as remote sensing and GIS, the course provides an introduction to the distributions of climate, plant cover, soils, and landforms over the face of the earth. While examining processes and conditions that cause these distributions, students will also explore the methods and techniques that let us visualize these distributions, and use maps as communicative devices in our explorations of these topics.

GEOG 121.  United States and Canada. 3 Units
Term Typically Offered: Fall, Spring

Present distribution and historical development of population, land use and industry in the U.S. and Canada in relation to regional variations in the physical environment and cultural heritage.

GEOG 125.  Geography Of East Asia. 3 Units
Term Typically Offered: Fall, Spring

Geographic setting and nature of Far Eastern civilization; origins, development and present outlines of settlement; cultures, resource use, economic structures, population, levels of technological achievement, and land use in China, Japan and Korea.

GEOG 127.  Geography Of Africa. 3 Units
Term Typically Offered: Spring only – odd years

Emphasis is on sub-Saharan Africa with consideration given to selected topics such as population problems, industrialization, regional groupings, transportation, and internal and external relationships.

GEOG 128.  Geography Of Europe. 3 Units
Term Typically Offered: Spring only – even years

Survey of Europe with emphasis on its physical environment, contemporary demographic, economic, and ethnic patterns, and the changing political landscape. Consideration will also be given to Europe's historic and present-day links with other world regions, and to the geographic basis for many of the social, political, economic, and environmental challenges facing contemporary Europe.

GEOG 129A.  Special Topics in Regional Geography A. 3 Units
Term Typically Offered: Fall only

Geographic survey of a selected region with emphasis on its physical environment and selected economic, demographic, political, and cultural patterns. Consideration may include its connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129B and GEOG 129C may be taken for up to 9 units.
<table>
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<th>Course Code</th>
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<td>GEOG 137</td>
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<td>GEOG 147</td>
<td>Urban Geography</td>
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<td>GEOG 148</td>
<td>Urban and Regional Planning</td>
<td>3</td>
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<td>GEOG 149</td>
<td>Transportation Geography</td>
<td>3</td>
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<td>GIS Data Acquisition and Management</td>
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<td>GEOG 155</td>
<td>GIS Data Acquisition and Management</td>
<td>3</td>
<td>Fall, Spring</td>
<td>GEOG 109</td>
</tr>
</tbody>
</table>

Spatial patterns of population numbers and characteristics; migration and spread of ideas; potential for economic and cultural developments.
GEOG 161. California's Water Resources. 3 Units
Term Typically Offered: Spring only

Study of the location and nature of the state's surface and underground water, including development by government agencies, water needs of cities, farms, recreation and wildlife, implications of water rights, water marketing and conservation, and management of floods, droughts and pollution.

GEOG 163. Applied GIS. 3 Units
Prerequisite(s): GEOG 109.
Term Typically Offered: Fall only

Introduction to developing a GIS project, including planning, database research, proposal writing, analysis and evaluation. Lecture 2 hours; Laboratory 3 hours.

GEOG 181. Quantitative Methods in Geography. 3 Units
Term Typically Offered: Spring only

Introduction to techniques useful in the analysis of spatial distributions and other geographic phenomena: basic aspatial descriptive and inferential techniques, correlation, regression, and spatial inferential techniques.

GEOG 182. Qualitative Methods in Geography. 3 Units
Prerequisite(s): GEOG 102

Students learn and conduct an array of observational and qualitative research techniques used in human geography, including landscape observation, participant observation, interviews, surveys and questionnaires, group discussions (focus groups, charrettes, etc.), visual methods, archival research, and analyzing some of the writing styles commonly used in qualitative research. One learns the relative strengths and weaknesses of these techniques, their appropriate applications, ways to combine them in mixed-methods research, and how to analyze and represent the data.

GEOG 189. Senior Research Seminar in Geography. 3 Units
Prerequisite(s): GEOG 1, GEOG 2, GEOG 3, GEOG 102; senior standing, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; or instructor permission.

General Education Area/Graduation Requirement: Writing Intensive
Graduation Requirement (Wi) Term Typically Offered: Spring only

Writing-intensive capstone course requiring students to complete independent research projects displaying their mastery of geography's content and methods. Projects undertaken in a given semester share a common thematic and/or regional focus. Students use bibliographic, field, spatial analytic, graphic, and verbal skills. Context for projects is provided by a review of the recent history of the discipline. Lecture/discussion three hours.

GEOG 192A. Geography Field Experience A. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via beginning-level field observation. Emphasis may be placed on physical features, cultural features, or both.

Credit/No Credit

GEOG 192B. Geography Field Experience B. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via intermediate-level field observation. Emphasis may be placed on physical features, cultural features, or both.

Credit/No Credit

GEOG 192C. Geography Field Experience C. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via advanced-level field observation. Emphasis may be placed on physical features, cultural features, or both.

Credit/No Credit

GEOG 193A. Field Geography: Urban-Metropolitan. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Spring only – odd years

Examines the internal structure and external relations of Sacramento as a metropolitan center and of nearby urban communities through field observation and exercises. Emphasis is placed on mapping and interviewing as ways of gaining useful information on urban patterns.

GEOG 193B. Field Geography: Suburban-Rural. 3 Units
Prerequisite(s): Instructor permission

Examines competition for land use in suburban Sacramento as urban sprawl overrides less intensive uses. Small towns in the lower Sacramento Valley also examined. Group field trips, interviews, field mapping and discussions. Field trip(s) may be required.

GEOG 193C. Field Geography: Physical. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall only

Survey of selected areas with systematic examination of elements of the natural landscape. Group field trips and individual preparation of reports and consultation with instructor. Field trip(s) may be required.

GEOG 194. Geography - Related Work Experience. 6 - 12 Units
Prerequisite(s): Consent of supervising faculty and Department Chair.
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency doing geography-related work, arranged through the Department of Geography and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full- or part-time work assignment, and a written report. Units not applicable to the Geography major.

Credit/No Credit
GEOG 195A. Geography Internship A. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at the beginning level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.

Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 195B. Geography Internship B. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an intermediate level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.

Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 195C. Geography Internship C. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an advanced level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.

Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 196F. Feminist Geography. 3 Units
Term Typically Offered: Fall, Spring, Summer

In this course we bring the feminist project in to the classroom by exploring the work of feminist geographers who seek to challenge the embedded whiteness in our field. We also aim to incorporate the decolonial practices to transform the geographic scholarship in an international and multi-disciplinary context.

GEOG 196G. Programming for GIS II. 3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Spring only

This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 198. Co-Curricular Activities. 1 - 6 Units
Prerequisite(s): Consent of faculty Sponsor and department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to subject matter and concerns of the Geography Department, e.g. students may qualify for credit by providing special tutorial assistance to EOP students or others in introductory courses.

Note: May be repeated for up to 6 units of credit.

Credit/No Credit

GEOG 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department chair.
Term Typically Offered: Fall, Spring, Summer

Individual projects or directed reading.

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199A. Geography Special Problems A. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at a beginning level. Graded (CR/NC Available) Units: 1.0 - 3.0

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199B. Geography Special Problems B. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an intermediate level, ordinarily taken following completion of GEOG 199A. Graded (CR/NC Available) Units: 1.0 - 3.0

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199C. Geography Special Problems C. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an advanced level. Ordinarily taken following completion of GEOG 199A and GEOG 199B. Graded (CR/NC Available) Units: 1.0 - 3.0

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students competent to carry on individual work.

Credit/No Credit