Geography graduates are especially well-positioned for newly emerging green jobs, such as sustainability managers in private industry.

According to the U.S. Bureau of Labor Statistics, the 2020 median pay for cartographers and photogrammetrists is $68,380; for urban and regional planners, $75,950; for conservation scientists and foresters, $64,010; and for scientists and specialists, $73,230. These professions are projected to grow at about 7-8% a year between 2020 and 2030.

**Programs**

**Undergraduate**

**Bachelor’s**

**Minors**

**Certificates**

See Course Description Symbols and Terms ([https://catalog.csuchico.edu/academic-standards-policies/course-description-symbols-terms/](https://catalog.csuchico.edu/academic-standards-policies/course-description-symbols-terms/)) for an explanation of course description terminology and symbols, the course numbering system, and course credit units.
GEOG 101W Earth Systems and Physical Geography (W) 3 Units GE, W
Prerequisite: Recommended: High school biology, chemistry, or physics.
Typically Offered: Spring, summer, fall
This course is a survey of the basic processes that determine flows of energy through the atmosphere and examines the subsequent interactions among water, landforms, soil, and vegetation that create and modify the surface of the earth. Students develop a recognition of landscape patterns, as well as an understanding of the physical, chemical, and biological principles and functions that create those patterns, in order to understand the natural environment in which we live and the role of humans affecting that environment. 2 hours activity, 2 hours lecture. (003857)
General Education: Laboratory Activity (B3); Physical Science (B1)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division; Sustainable Course; Writing Course

GEOG 102 Peoples, Places, and Environments 3 Units GC, GE
Typically Offered: Fall and spring
Survey of human populations and activities, with an emphasis upon how social, economic, political, and religious institutions influence interrelationships with the physical environment. 3 hours lecture. (003859)
General Education: Social Sciences (D)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division; Global Cultures

GEOG 105 California Cultural Landscapes 3 Units GE, USD
Typically Offered: Fall and spring
Broad overview of spatial and temporal changes in the California landscape resulting from the interaction of various cultural groups with their environment. 3 hours lecture. (003860)
General Education: Social Sciences (D)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division; Global Cultures

GEOG 106 The American West 3 Units GE, USD
Typically Offered: Fall and spring
The historical cultural geography of the American West, emphasizing how various cultural groups have each made a unique imprint on the western landscape. 3 hours lecture. (003861)
General Education: Social Sciences (D)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division; Sustainable Course; U.S. Diversity

GEOG 119A Introductory ArcGIS 1 Unit
Typically Offered: Fall and spring
Introduction of concepts and techniques of geographic information system analysis and the presentation of map data. The course introduces the ArcMap application. Not for geography majors. 1 hour lecture. (020348)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 2 units
Course Attributes: Lower Division

GEOG 139 Visualizing Local Landscapes 3 Units GE
Typically Offered: Fall and spring
Cultural landscapes are works of the human imagination, and thus can be examined via complementary visual media representing our deepest feelings, beliefs, and intuition about a place. They are a palimpsest that contains the etchings that past and present cultures have inscribed on Earth's surface. Cultural landscapes teem with information about the relationship between different cultures and the physical world, the relationships between privileged and marginalized communities, and, also, reflect how cultures change through time. This course develops a student’s appreciation of cultural landscapes by exploring and creating visual media representations using the landscapes of the Greater Chico area. This course acknowledges the wholeness of nature and human experiences in the world, a consciousness approach to viewing, interpreting, and representing landscapes. Students read about, observe, illustrate, and think about local landscapes. 3 hours lecture. (022233)
General Education: Arts (C1)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

GEOG 198 Special Topics 1-3 Units
Typically Offered: Fall and spring
This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. 3 hours lecture. (003869)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

GEOG 199 Special Problems 1-3 Units
Prerequisite: Faculty permission.
Typically Offered: Fall and spring
This course is an independent study of special problems offered for 1.0-3.0 units. You must register directly with a supervising faculty member. 3 hours supervision. (020160)
Grade Basis: Credit/No Credit
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Lower Division

GEOG 211 Introduction to Geographical Information Systems 3 Units
Typically Offered: Fall and spring
This course provides an introduction to topics and technology in Geographic Information Systems (GIS). The course will combine a conceptual discussion of topics with practical exercises. Both the theory and practice of GIS analysis will be presented. 3 hours lecture. (021439)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division
GEOG 219 Introduction to Geographic Methods 3 Units
Typically Offered: Fall and spring
Introduction to essential geographic problem solving techniques which include: data collection, analysis, and presentation of spatial information. Techniques include map measurement and interpretation, aerial photo analysis, field observations with GPS, introductory geographic information systems, computer cartography, summary of numerical data, elementary probability, distributions, and introduction to statistical inference. This is an introductory tools course for students majoring in geography, the natural and earth sciences, and in such applied fields as planning and recreation. Students undertake a class project related to a specific disaster event where they explore the environmental, social, and policy implications of disaster preparedness and risk reduction in their project area. 3 hours lecture. (015867)

Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

GEOG 301W Global Economic Geography (W) 3 Units GC, GE, W
Prerequisite: GE Oral Communication (A1); GE Written Communication (A2); GE Critical Thinking (A3); GE Mathematics/Quantitative Reasoning (B4) requirements, or consent of the instructor.
Typically Offered: Fall and spring
A systematic survey of human economic activities. Analysis of resource exploitation and use, including agriculture, extractive activities, industry, commerce, and service functions. Recommended for business and liberal arts majors. 3 hours lecture. (021530)

General Education: Upper-Division Social Sciences (UDD); Agriculture, Food, and Environment Pathway; Equity, Ethics, and Policy Pathway

Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Global Cultures; Writing Course

GEOG 303 Geography and World Affairs 3 Units GC, GE
Prerequisite: GE Oral Communication (A1); GE Written Communication (A2); GE Critical Thinking (A3); GE Mathematics/Quantitative Reasoning (B4) requirements, or consent of the instructor.
Typically Offered: Spring, summer, fall
Geography in the news. Analysis of current world conflicts and problem areas, with an emphasis upon examination of social, economic, political, and environmental realities. 3 hours lecture. (003872)

General Education: Upper-Division Social Sciences (UDD); Global Studies Pathway; Science, Technology, and Society Pathway

Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Global Cultures

GEOG 304 Sustainability and Climate Change Issues 3 Units GE
Prerequisite: GE Oral Communication (A1); GE Written Communication (A2); GE Critical Thinking (A3); GE Mathematics/Quantitative Reasoning (B4) requirements, or consent of the instructor.
Typically Offered: Fall and spring
Geographic analysis of humanity's interaction with the environment. Examines natural and human systems, resources, population, energy, and pollution. Develops an appreciation of the beauty, balance, and complexity of natural systems and human success in attaining harmony with them. Enhances awareness and perception of each individual's role in and with the environment. 3 hours lecture. (003873)

General Education: Upper-Division Social Sciences (UDD); Sustainability and Climate Change Pathway

Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 305 Mobile, Wired, and Tracked: Our Digital Planet 3 Units GE
Prerequisite: GE Oral Communication (A1); GE Written Communication (A2); GE Critical Thinking (A3); GE Mathematics/Quantitative Reasoning (B4) requirements, or consent of the instructor.
Typically Offered: Fall and spring
Digital mapping, location based services, geo-tracking, crowdsourcing, citizen science and online social networks are critically examined in terms of geographic representation, geographic inquiry, individual privacy, equity, and social justice. An experiential course that develops skills in critical geospatial thinking through inquiry into and analysis of evolving geospatial technologies (e.g. geographic information systems, global positioning systems (GPS), unmanned aerial vehicles (UAVs), and satellite imagery); and explores their impact on the individual and society as they pertain to scientific, technological, social and earth science phenomena. An examination of the role of critical geospatial thinking in daily life and scientific pursuits. 3 hours lecture. (022317)

General Education: Upper-Division Social Sciences (UDD); Innovation, Design, and the Arts Pathway; Science, Technology, and Society Pathway

Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

GEOG 306 Geographies of Disaster 3 Units
Typically Offered: Spring only
This course adopts a geographical focus to study the impacts of natural and technological hazards at the local, regional, and global scales. The concepts of vulnerability, resilience, and risk are reviewed to examine the spatial and temporal distribution of hazards. Geographical information systems and quantitative techniques are applied to analyze the impacts of disasters and to highlight the environmental and social factors that create or worsen hazardous areas. In addition to class discussions and readings, students undertake a class project related to a specific disaster event where they explore the environmental, social, and policy implications of disaster preparedness and risk reduction in their project area. 3 hours lecture. (003875)

Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 313 Introductory Cartography 3 Units
Prerequisite: GEOG 211 or equivalent (may be taken concurrently).
Typically Offered: Fall only
Introduction to the compilation, design, and production of thematic maps. Emphasis is on maps as communication devices. 3 hours lecture. (003880)

Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Typical Offered</th>
<th>Grade Basis</th>
<th>Repeatability</th>
<th>Course Attributes</th>
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<tbody>
<tr>
<td>GEOG 315</td>
<td>Applied Statistical Methods in Geography</td>
<td>3</td>
<td>GEOG 211, MATH 105 or equivalents.</td>
<td>Fall only</td>
<td>Graded</td>
<td>You may take this course for a maximum of 3 units</td>
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<td>Introduction to quantitative analysis of spatial data using single and two</td>
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<td>Course Attributes: Upper Division</td>
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<td>sample inference, analysis of variance, correlation, multiple regression,</td>
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<td>You may take this course for a maximum of 3 units</td>
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<td>analysis of co-variance, experimental design, repeated measures,</td>
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<td>Course Attributes: Graded</td>
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<td>nonparametric procedures, categorical data analysis, clustering/</td>
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<td>Course Attributes: Upper Division</td>
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<td>classification, and principal components analysis.</td>
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<td>You may take this course for a maximum of 3 units</td>
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<td>Examples are drawn from geographical themes in economics, demography, politics,</td>
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<td>planning, natural and earth sciences. Statistical packages are introduced.</td>
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<td>Course Attributes: Upper Division</td>
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<td>3 hours lecture.</td>
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<td>You may take this course for a maximum of 3 units</td>
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<td>GEOG 317</td>
<td>Field Techniques</td>
<td>3</td>
<td>GEOG 101W, GEOG 102.</td>
<td>Fall only</td>
<td>Graded</td>
<td>You may take this course for a maximum of 3 units</td>
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<tr>
<td>GEOG 320</td>
<td>Introduction to Land Use Planning</td>
<td>3</td>
<td>GEOG 101W, ERTH 102, PSSC 101, or PSSC 250; GEOG 211, GEOG 219, or AGET 340.</td>
<td>Fall only</td>
<td>Graded</td>
<td>You may take this course for a maximum of 3 units</td>
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<tr>
<td>GEOG 342</td>
<td>Geomorphology</td>
<td>3</td>
<td>GEOG 101W, ERTH 102, PSSC 101, or PSSC 250; GEOG 211, GEOG 219, or AGET 340.</td>
<td>Fall only</td>
<td>Graded</td>
<td>You may take this course for a maximum of 3 units</td>
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<tr>
<td>GEOG 343</td>
<td>Climatology</td>
<td>3</td>
<td>GEOG 101W or ERTH 170 or equivalent; GEOG 211 and GEOG 219 or equivalent.</td>
<td>Fall only</td>
<td>Graded</td>
<td>You may take this course for a maximum of 3 units</td>
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<tr>
<td>GEOG 352</td>
<td>The United States</td>
<td>3</td>
<td>GEO Oral Communication (A1); GE Written Communication (A2); GE Critical Thinking (A3); GE Mathematics/Quantitative Reasoning (B4) requirements, or consent of the instructor.</td>
<td>Fall and spring</td>
<td>Graded</td>
<td>You may take this course for a maximum of 3 units</td>
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<tr>
<td>GEOG 357</td>
<td>Lands and Peoples of Latin America</td>
<td>3</td>
<td>GE Oral Communication (A1); GE Written Communication (A2); GE Critical Thinking (A3); GE Mathematics/Quantitative Reasoning (B4) requirements, or consent of the instructor.</td>
<td>Fall and spring</td>
<td>Graded</td>
<td>You may take this course for a maximum of 3 units</td>
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</table>

**Course Attributes:**
- Upper Division
- Sustainable Course
- Writing Course
- Graduation Writing Assessment

**Grade Basis:**
- Graded
- Credit/No Credit

**Typically Offered:**
- Fall only
- Fall and spring

**Repeatability:** You may take this course for a maximum of 3 units

**General Education:**
- Upper-Division Social Sciences (UDD); Equity, Ethics, and Policy Pathway
- Upper-Division Social Sciences (UDD); Global Studies Pathway; Race, Ethnicity, and Sovereignty Pathway
- Upper-Division Social Sciences (UDD)
### GEOG 398 Special Topics

- **1-3 Units**
- **Typically Offered:** Fall and spring
- This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. 2 hours lecture. (003923)
- **Grade Basis:** Graded
- **Repeatability:** You may take this course more than once
- **Course Attributes:** Upper Division

### GEOG 398H Special Topics - Honors

- **3 Units**
- **Typically Offered:** Junior standing and current enrollment in the Honors Program
- In a format designed for students in the Honors Program, this course will present selected topics not covered in the regular curriculum. Topics will vary from one semester to another. See the Class Schedule for the specific topic being offered. 3 hours lecture. (003924)
- **Grade Basis:** Graded
- **Repeatability:** You may take this course more than once
- **Course Attributes:** Upper Division

### GEOG 399 Special Problems

- **1-3 Units**
- **Typically Offered:** Inquire at department
- This course is an independent study of special problems offered for 1.0-3.0 units. You must register directly with a supervising faculty member. 3 hours supervision. (003925)
- **Grade Basis:** Credit/No Credit
- **Repeatability:** You may take this course for a maximum of 6 units
- **Course Attributes:** Upper Division

### GEOG 405 Conservation, Restoration, and Stewardship

- **3 Units**
- **Typically Offered:** Fall only
- An analysis of the complex interactions between humans, plants, and animals in the restoration process. Includes the use of maps and other graphic material as well as reading, lecture, and discussion. Emphasis on how human activities can affect the distribution and abundance of various plant and animal species in both negative and positive ways. Restoration work on the Butte Creek Ecological Reserves and other similar sites provide a focus for class projects and discussion. 3 hours lecture. (003930)
- **Grade Basis:** Graded
- **Repeatability:** You may take this course for a maximum of 3 units
- **Course Attributes:** Upper Division, Sustainable Course

### GEOG 407W Earth Systems Analysis of Global Change (W)

- **3 Units**
- **Typically Offered:** Spring only
- This course brings together the fields of climatology, biogeography, and geomorphology to study earth systems science as an integrative discipline of spatially dependent earth processes with implications for human systems. Major mechanisms and processes which produce climate change are covered with an examination of the impacts of past climate change on human societies. Observations and modeling of selected earth system components at various spatial scales of analysis facilitate an understanding of spatial modeling from simple to complex systems. 3 hours lecture. (015873)
- **Grade Basis:** Graded
- **Repeatability:** You may take this course for a maximum of 3 units
- **Course Attributes:** Upper Division; Sustainable Course; Writing Course; Graduation Writing Assessment

### GEOG 411 Geospatial Analysis and Modeling in GIS

- **3 Units**
- **Typically Offered:** Spring only
- Advanced geospatial analysis and modeling techniques using Geographic Information Systems (GIS). Topics include geoprocessing, Python programming, and geospatial modeling. Students collaborate to design, develop, and present a GIS pilot study. They apply GIS theory and techniques to solve problems in land and resource management, utilities, and municipal government. Covers all stages of a GIS project: planning, design, analysis, and presentation. 1 hour activity, 2 hours lecture. (003942)
- **Grade Basis:** Graded
- **Repeatability:** You may take this course for a maximum of 3 units
- **Course Attributes:** Upper Division

### GEOG 413 Advanced Cartography and Geovisualization

- **3 Units**
- **Typically Offered:** Spring only
- Cartographic data entry, manipulation, and analysis in a computer mapping environment. Emphasis is on geographic information processing. 3 hours lecture. (003932)
- **Grade Basis:** Graded
- **Repeatability:** You may take this course for a maximum of 3 units
- **Course Attributes:** Upper Division

### GEOG 418 Remote Sensing of Environment

- **3 Units**
- **Typically Offered:** Spring only
- An introduction to the theory, techniques, data acquisition, processing, and presentation of imagery acquired through aerial photographic and satellite means of remote sensing. Application of basic skills of aerial photographic interpretation and satellite digital image processing and analysis to physical and cultural geographic phenomena. 3 hours lecture. (003941)
- **Grade Basis:** Graded
- **Repeatability:** You may take this course for a maximum of 3 units
- **Course Attributes:** Upper Division
GEOG 425 Planning for Sustainable Communities and Regions

Typically Offered: Fall only even years
Examination of economic, social, demographic, and political bases for sustainable community and regional development and planning. Introduces the theory, evolution and practice of planning for sustainable communities and regions through examination of environmental, economic, and equity issues. 3 hours discussion. (003947)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 426 Water Resource Policy and Planning

Prerequisite: GEOG 101W or SCED 101 or equivalents. Recommended: GEOG 304, GEOG 343.
Typically Offered: Spring only
Analysis of local, regional, national, and international water resource projects, distributions, and characteristics. 3 hours seminar. (003948)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 427 Environmental Impact Analysis

Prerequisite: Recommended: GEOG 320.
Typically Offered: Spring only
Study of the legal antecedents to California environmental impact legislation; analysis of environmental review procedures, environmental research, preparation and evaluation of EIRs, and conditional negative declarations. 3 hours discussion. (003949)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 428 Land Use Planning Studio

Prerequisite: Recommended: GEOG 320.
Typically Offered: Spring only even years
Relationship of physical, biotic, cultural, and aesthetic factors to land planning. Techniques of solving site problems dealing with topography, grading, slope stability, seismicity, hydrology, vegetation, wildlife, soils, micro-climate energy use, view-shed, and functional design. Land development projects are analyzed, and plans for new development projects are prepared. 3 hours discussion. (003950)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 429 Environmental and Conservation Planning

Prerequisite: Recommended: GEOG 320.
Typically Offered: Spring only odd years
This course introduces the theory and application of environmental and conservation planning. It critically examines the activities of environmental planning and the analytical approaches that can be used to direct resources toward conservation that yields the greatest return on biodiversity protection and ecosystem services sustainability. Students gain knowledge of the theories, techniques through practical experiences in planning activities, and institutional legalities of environmental and conservation planning. Using sustainability as a framework, this course presents the underlying concepts of sustainable land-use planning to best manage for abiotic and biotic resources. Focus is on the regional, local, and landscape scales. 3 hours lecture. (020744)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 436 Sustainable Transportation Planning

Prerequisite: GEOG 320, or faculty permission.
Typically Offered: Fall only odd years
An analysis of the function and distribution of the various modes of transportation and their role in urban and regional sustainable development. Techniques of sustainable planning transportation systems based on land use. 3 hours discussion. (003955)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

GEOG 438 Urban Geography

Prerequisite: GEOG 102, GEOG 105, GEOG 106 or SOSC 301.
Typically Offered: Spring only
Examines the location, evolution, shape, spatial patterns, and classification of cities in the United States and elsewhere. Studies the evolution of urban systems and the spatial organization of neighborhoods, central business districts, and suburbs. Explores environmental, economic, and social issues associated with urbanization, and the policies used to address them. Examines the roles of class, race, ethnic diversity, gender, and consumption in shaping the experience of urban life. 3 hours lecture. (021163)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

GEOG 439W American Cultural Landscapes (W)

Prerequisite: GE Written Communication (A2) requirement, GEOG 390W with a C- or higher for Geography majors.
Typically Offered: Fall only
Analysis of the special character of North American landscapes. Examination of the historical evolution of contemporary landscapes through maps, reading, literature, field observations, and class discussion. Emphasis on comparison of regional patterns and the shaping of American landscapes by cultural and economic factors. 3 hours discussion. (003890)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Writing Course; Graduation Writing Assessment

GEOG 440 Environmental Thought in Action

Prerequisite: Faculty permission.
Typically Offered: Spring only
This seminar is required of students minoring in Environmental Studies and is to be taken as the culminating course in the minor. The course integrates the cross-disciplinary elements of the minor, emphasizing the interplay among the scientific, social, legal, historical, and humanistic elements of the study of the environment. 3 hours seminar. (009080)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course
GEOG 444  Biogeography and Landscape Ecology  3 Units
Prerequisite: GEOG 101W, GEOG 211, GEOG 343, GEOG 390W or equivalents. Recommended: BIOL 161, BIOL 350W, GEOG 315.
Typically Offered: Inquire at department
Biogeography and landscape ecology are keys for evaluating plant and animal distributions at local to global spatial scales. This course seeks to understand the physical and biological processes that determine these patterns through time, as well as help design management strategies for conserving our planet's biological diversity, and thus ecosystem services. The course emphasizes nature and impact of continuity and patchiness of species distributions and movement, and material flow on the structure and dynamics of wildland, agrarian, and urbanized landscapes. This is thus a highly integrative field of inquiry, pulling on concepts, theories and data from general ecology, evolutionary biology, geology, and physical and human geography. Quantitative methods and field trips consider the biogeography of plants and animals in the local landscapes. 2 hours activity, 2 hours lecture. (003929)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 445  Pyrogeography  3 Units
Prerequisite: GEOG 101W; AGRI 331, BIOL 350W, BIOL 414, GEOG 343, GEOG 405S, or PSSC 330.
Typically Offered: Spring only
Pyrogeography is a comprehensive study of the physical and cultural parameters of fire. Topics covered include the spacial and temporal relationships of fire as an integral landscape process with an emphasis on the maintenance of North American ecosystems; the interpretation of the cultural uses of fire by indigenous communities as well as the historic and contemporary implications of fire management and policies; and the ecological implications of fire on biotic and abiotic systems. 3 hours discussion. (020415)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course

GEOG 489  Geography Internship  1-3 Units
Typically Offered: Fall and spring
This course is an internship offered for 1.0-3.0 units. You must register directly with a supervising faculty member. Supervised work experience in applied geography or planning in public or quasi-public agencies. 9 hours supervision. (003992)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 15 units
Course Attributes: Upper Division

GEOG 498  Special Topics  1-3 Units
Prerequisite: Completion of 6 units of geography.
Typically Offered: Fall and spring
This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. 3 hours supervision. (004004)
Grade Basis: Graded
Repeatability: You may take this course more than once
Course Attributes: Upper Division

GEOG 499  Special Problems  1-3 Units
Prerequisite: Faculty permission.
Typically Offered: Fall and spring
This course is an independent study of special problems offered for 1.0-3.0 units. You must register directly with a supervising faculty member. 9 hours supervision. (004005)
Grade Basis: Credit/No Credit
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Upper Division

GEOG 499H  Honors Research in Geography  3 Units
Prerequisite: Faculty permission.
Typically Offered: Fall and spring
An intensive 3-unit course in geographical research. See department office for details. Open only to students with at least a 3.0 GPA in the major. The course consists of a research project done under the supervision of a faculty member, a formal written paper, and a public presentation. 9 hours supervision. (004006)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Upper Division

GEOG 506  Community Service Practice in Geography  3 Units
Prerequisite: Recommended: GEOG 320.
Typically Offered: Fall only
Management of socio-economic and cultural spatial resources in the human-built environment. Effective programs and the institutional frameworks in which they occur. An analysis of the complex interactions between institutions, socio-economic structure, and cultural landscape in the management and planning process. Includes the use of maps and other graphic material, field surveys, as well as reading, lecture, and discussion. Community service work with the City of Chico and other similar municipal agencies or civil sector organizations provide a focus for class projects and discussion. 3 hours lecture. (021451)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Upper Division

GEOG 598  Special Topics  1-3 Units
Prerequisite: Department permission.
Typically Offered: Fall and spring
This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. 0 hours supervision. (020162)
Grade Basis: Graded
Repeatability: You may take this course more than once
Course Attributes: Upper Division

GEOG 599  Special Problems  1-3 Units
Prerequisite: Faculty permission.
Typically Offered: Fall and spring
This course is an independent study of special problems offered for 1.0-3.0 units. You must register directly with a supervising faculty member. 9 hours supervision. (020187)
Grade Basis: Credit/No Credit
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Upper Division
GEOG 689  Geography Internship  1-3 Units
Prerequisite: Graduate Coordinator permission.
Typically Offered: Fall and spring
This course is an internship offered for 1.0-3.0 units. You must register directly with a supervising faculty member. Supervised work experience.
9 hours supervision. (004057)
Grade Basis: Graduate Graded
Repeatability: You may take this course for a maximum of 15 units
Course Attributes: Graduate Division

GEOG 689T  Supervised College Teaching  2 Units
Typically Offered: Fall and spring
Weekly tutorials and supervision for those students who plan to prepare themselves for a career in college teaching of geography. Students must identify the course and the tenure/tenure-track faculty member teaching that course during the semester offered. The faculty member must agree to mentor a student in pedagogical training with a particular course. Faculty members can be responsible for a maximum of two students in any one semester. A maximum of 2.0 units in this course is acceptable for credit toward the Master of Arts in Geography. The course may be taken twice, but a different subject course must be chosen for the second enrollment. A supervised teaching plan is to be filed with the Graduate Coordinator, and approval of the Department Chair is required for registration. 6 hours supervision. (020443)
Grade Basis: Graduate Graded
Repeatability: You may take this course for a maximum of 4 units
Course Attributes: Graduate Division

GEOG 697  Independent Study  1-3 Units
Prerequisite: Graduate Coordinator permission.
Typically Offered: Fall and spring
This course is a graduate-level independent study offered for 1.0-3.0 units. You must register directly with a supervising faculty member. 3 hours supervision. (004060)
Grade Basis: Credit/No Credit
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Graduate Division

GEOG 699P  Master's Project  1-6 Units
Prerequisite: Graduate Coordinator permission and candidacy status.
Typically Offered: Fall and spring
This course is offered for 1.0-6.0 units. You must register directly with a supervising faculty member. 9 hours supervision. (004064)
Grade Basis: Report in Progress: CR/NC
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Graduate Division

GEOG 699T  Master's Thesis  1-6 Units
Prerequisite: Graduate Coordinator permission and candidacy status.
Typically Offered: Fall and spring
This course is offered for 1.0-6.0 units. You must register directly with a supervising faculty member. 9 hours supervision. (004061)
Grade Basis: Report in Progress: CR/NC
Repeatability: You may take this course for a maximum of 6 units
Course Attributes: Graduate Division

Geography and Planning Department

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