Geography

Bachelor of Arts (BA)
The undergraduate major in Geography is unusually broad and diverse, including the study of cultural, economic, political, historical, biophysical, urban and regional geography as well as cartography, quantitative methods, Geographical Information Systems (GIS), remote sensing and field work. Backgrounds in the natural and social sciences, history, and statistical methods may be useful to the geography major, with the mix and emphasis depending on the student’s particular interests. Lower division requirements ensure that all students gain a broad understanding of the discipline, while upper division requirements are structured to allow students to specialize in the areas of their greatest interest.

Declaring the Major
Students may declare the Geography major after they have completed two of the three lower division requirements, completed at least 30 units, have a C (2.0) cumulative grade point average (GPA), and no prior infraction of the Undergraduate Code of Ethics and Climate Standard (http://geography.berkeley.edu/undergraduate-studies/major-and-minor-program-details). Students should declare by the end of their sophomore year at Berkeley or by the start of their second semester if they are a transfer student. To declare, make an online appointment with the student academic adviser here: http://ensor.youcanbook.me.

Honors Program
Students with an overall GPA of 3.5 or higher on all work completed at the University, and an average of 3.5 in courses taken in the Geography Department, may apply for the honors program, with the consent of a departmental adviser. The application should be made at the beginning of the senior year. A senior in the honors program must complete GEOG H195A and/or GEOG H195B consecutively, in which a thesis is required (usually over two semesters). Any faculty member in the department may administer an honors course. It is suggested that students approach faculty members with whom they have taken classes about mentorship during junior year. After deciding on the number of units (1-4 units) the student wishes to undertake, the student should verify course control number (CCN) and the departmental application. Upon successful completion of the program and graduation, the designation of "with Honors," "with High Honors," or "with Highest Honors" will be noted on the student’s transcript and diploma.

Minor Program
The Department offers a Minor in Geography. Upon completion of all the requirements for the minor, students must see the academic adviser to fill out the “Confirmation of Minor Program” petition. Students should plan on filing this petition with the adviser during the finals week of the semester in which the last course is taken.

In addition to the University, campus, and college requirements, listed on the College Requirements tab, students must fulfill the below requirements specific to their major program.

General Guidelines
1. All courses taken to fulfill the major requirements below must be taken for graded credit, other than courses listed which are offered on a Pass/No Pass basis only. Other exceptions to this requirement are noted as applicable.
2. No more than one upper division course may be used to simultaneously fulfill requirements for a student’s major and minor programs, with the exception of minors offered outside of the College of Letters & Science.
3. A minimum grade point average (GPA) of 2.0 must be maintained in both upper and lower division courses used to fulfill the major requirements.

For information regarding residence requirements and unit requirements, please see the College Requirements tab.

Lower Division Requirements (3 courses) ¹
Select one course from each of the following groups:

<table>
<thead>
<tr>
<th>Basic Physical Geography</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GEOG 1  Global Environmental Change (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG N1 Global Environmental Change (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG 40 Introduction to Earth System Science (or equivalent)</td>
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<table>
<thead>
<tr>
<th>World Geography</th>
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</thead>
<tbody>
<tr>
<td>GEOG 4 World Peoples and Cultural Environments (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG N4 World Peoples and Cultural Environments (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG 10 World Regions, Peoples, and States (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG 20 Globalization (or equivalent)</td>
<td></td>
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<tr>
<td>GEOG N20 Globalization (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG 31 Justice, Nature, and the Geographies of Identity (or equivalent)</td>
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<tr>
<td>GEOG 35 Global Ecology and Development (or equivalent)</td>
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</table>

<table>
<thead>
<tr>
<th>Regional Geographies</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>GEOG C32 Introduction to Development (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG 37 The Politics of Science and Technology (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>GEOG 50AC California (or equivalent)</td>
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<tr>
<td>GEOG N50AC California (or equivalent)</td>
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<tr>
<td>GEOG C55 Introduction to Central Asia (or equivalent)</td>
<td></td>
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<tr>
<td>GEOG 70AC The Urban Experience (or equivalent)</td>
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</tbody>
</table>

¹ Transfer students who have had introductory courses elsewhere should consult with the staff academic adviser in order to avoid repeating lower division work.

Upper Division Requirements
Students select either the 5-2-1 Option or the 4-2-2 Option for fulfilling upper division major requirements.

5-2-1 Option
Select eight upper division courses:
- Five courses from one specialty group (see below)
- Two courses from the other specialty group (see below)
- One methodology course (see below)
### 4-2-2 Option

Select eight upper division courses:
- Four courses from one specialty group (see below)
- Two courses from the other specialty group (see below)
- Two methodology courses (see below)

### Specialty Groups

#### Earth System Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 140A</td>
<td>Physical Landscapes: Process and Form</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 109</td>
<td>Prehistoric Agriculture</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C135</td>
<td>Water Resources and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG C136</td>
<td>Terrestrial Hydrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 137</td>
<td>Top Ten Global Environmental Problems</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C139</td>
<td>Atmospheric Physics and Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 142</td>
<td>Climate Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 143</td>
<td>Global Change Biogeochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 144</td>
<td>Principles of Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG C145</td>
<td>Geological Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C146</td>
<td>Communicating Ocean Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 147</td>
<td>Communicating Climate Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 148</td>
<td>Biogeography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 171</td>
<td>Special Topics in Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 175</td>
<td>Undergraduate Seminars</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Economy, Culture, & Society

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 109</td>
<td>Prehistoric Agriculture</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Economic Geography of the Industrial World</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C112</td>
<td>History of Development and Underdevelopment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 123</td>
<td>Postcolonial Geographies</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>The American City</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 130</td>
<td>Food and the Environment (Required if your specialty group is Economy, Culture, &amp; Society)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG N130</td>
<td>Food and the Environment (Required if your specialty group is Economy, Culture, &amp; Society)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 138</td>
<td>Global Environmental Politics</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C152</td>
<td>Course Not Available</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C157</td>
<td>Central American Peoples and Cultures</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 159AC</td>
<td>The Southern Border</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C160A</td>
<td>American Cultural Landscapes, 1600 to 1900</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C160B</td>
<td>American Cultural Landscapes, 1900 to Present</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 164</td>
<td>The Geography of Economic Development in China</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 170</td>
<td>Special Topics in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 172</td>
<td>Topics in Social Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 173A</td>
<td>Cross-listed Topics in Human Geography</td>
<td>1-4</td>
</tr>
<tr>
<td>GEOG 175</td>
<td>Undergraduate Seminars</td>
<td>4</td>
</tr>
</tbody>
</table>

1. This course required for this specialty group.
2. One of these courses is required from this specialty group.

### Methodology Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 80</td>
<td>Digital Worlds: An Introduction to Geospatial Technologies</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 180</td>
<td>Field Methods for Physical Geography</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Urban Field Study</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 182</td>
<td>Field Study of Buildings and Cities</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 183</td>
<td>Cartographic Representation</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 185</td>
<td>Earth System Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 187</td>
<td>Geographic Information Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG C188</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

Students who have a strong interest in an area of study outside their major often decide to complete a minor program. These programs have set requirements and are noted officially on the transcript in the memoranda section, but they are not noted on diplomas.

### General Guidelines

1. All courses taken to fulfill the minor requirements below must be taken for graded credit.
2. A minimum of three of the upper division courses taken to fulfill the minor requirements must be completed at UC Berkeley.
3. A minimum grade point average (GPA) of 2.0 is required for courses used to fulfill the minor requirements.
4. Courses used to fulfill the minor requirements may be applied toward the Seven-Course Breadth requirement, for Letters & Science students.
5. No more than one upper division course may be used to simultaneously fulfill requirements for a student's major and minor programs.
6. All minor requirements must be completed prior to the last day of finals during the semester in which you plan to graduate. If you cannot finish all courses required for the minor by that time, please see a College of Letters & Science adviser.
7. All minor requirements must be completed within the unit ceiling. (For further information regarding the unit ceiling, please see the College Requirements tab.)

### Minor Requirements

#### Upper Division Requirements

Select five upper division courses
- At least one course must be selected from the Earth System Science specialty group.
- At least one course must be selected from the Economy, Culture & Society specialty group.

Students should contact the student academic adviser to obtain a list of courses being offered each semester, which fall into these designated areas.

Undergraduate students in the College of Letters & Science must fulfill the following requirements in addition to those required by their major program.

For detailed lists of courses that fulfill college requirements, please review the College of Letters & Sciences (http://guide.berkeley.edu/undergraduate/colleges-schools/letters-science) page in this Guide.
Entry Level Writing (http://writing.berkeley.edu/node/78)

All students who will enter the University of California as freshmen must demonstrate their command of the English language by fulfilling the Entry Level Writing requirement. Fulfillment of this requirement is also a prerequisite to enrollment in all reading and composition courses at UC Berkeley.

American History and American Institutions (http://guide.berkeley.edu/undergraduate/colleges-schools/letters-science/american-history-institutions-requirement)

The American History and Institutions requirements are based on the principle that a US resident graduated from an American university, should have an understanding of the history and governmental institutions of the United States.

American Cultures (http://americancultures.berkeley.edu/students/courses)

American Cultures is the one requirement that all undergraduate students at Cal need to take and pass in order to graduate. The requirement offers an exciting intellectual environment centered on the study of race, ethnicity and culture of the United States. AC courses offer students opportunities to be part of research-led, highly accomplished teaching environments, grappling with the complexity of American Culture.

Quantitative Reasoning

The Quantitative Reasoning requirement is designed to ensure that students graduate with basic understanding and competency in math, statistics, or computer science. The requirement may be satisfied by exam or by taking an approved course.

Foreign Language

The Foreign Language requirement may be satisfied by demonstrating proficiency in reading comprehension, writing, and conversation in a foreign language equivalent to the second semester college level, either by passing an exam or by completing approved course work.

Reading and Composition

In order to provide a solid foundation in reading, writing, and critical thinking the College requires two semesters of lower division work in composition in sequence. Students must complete a first-level reading and composition course by the end of their second semester and a second-level course by the end of their fourth semester.

Breadth Requirements

The undergraduate breadth requirements provide Berkeley students with a rich and varied educational experience outside of their major program. As the foundation of a liberal arts education, breadth courses give students a view into the intellectual life of the University while introducing them to a multitude of perspectives and approaches to research and scholarship. Engaging students in new disciplines and with peers from other majors, the breadth experience strengthens interdisciplinary connections and context that prepares Berkeley graduates to understand and solve the complex issues of their day.

Unit Requirements

- 120 total units, including at least 60 L&S units
- Of the 120 units, 36 must be upper division units
- Of the 36 upper division units, 6 must be taken in courses offered outside your major department

Residence Requirements

For units to be considered in “residence,” you must be registered in courses on the Berkeley campus as a student in the College of Letters & Science. Most students automatically fulfill the residence requirement by attending classes here for four years. In general, there is no need to be concerned about this requirement, unless you go abroad for a semester or year or want to take courses at another institution or through UC Extension during your senior year. In these cases, you should make an appointment to meet an adviser to determine how you can meet the Senior Residence Requirement.

Note: Courses taken through UC Extension do not count toward residence.

Senior Residence Requirement

After you become a senior (with 90 semester units earned toward your BA degree), you must complete at least 24 of the remaining 30 units in residence in at least two semesters. To count as residence, a semester must consist of at least 6 passed units. Intercampus Visitor, EAP, and UC Berkeley-Washington Program (UCDC) units are excluded.

You may use a Berkeley Summer Session to satisfy one semester of the Senior Residence requirement, provided that you successfully complete 6 units of course work in the Summer Session and that you have been enrolled previously in the college.

Modified Senior Residence Requirement

Participants in the UC Education Abroad Program (EAP) or the UC Berkeley Washington Program (UCDC) may meet a Modified Senior Residence requirement by completing 24 (excluding EAP) of their final 60 semester units in residence. At least 12 of these 24 units must be completed after you have completed 90 units.

Upper Division Residence Requirement

You must complete in residence a minimum of 18 units of upper division courses (excluding EAP units), 12 of which must satisfy the requirements for your major.

Learning Goals for the Major

1. Spatial, holistic thinking: at the intersections of society, space, and nature
   a. Phenomena in place: Explain the spatial dimensions (location, place, landscape, region, and territory) of human life and the global environment—how human and earth science phenomena “take their place” on the surface of the earth.
   b. Earth systems: Comprehend how the Earth functions as a complex system of interacting components and how this system applies to and is affected by humanity.
   c. Scales of space and time: Understand processes operating at different spatial and temporal scales in the earth system and in human histories.

e. Interdisciplinarity: Combine insights from the natural sciences, social sciences, and humanities to better understand the problems of the increasingly interconnected and ecologically fragile world.

2. Addressing diversity in both human and physical geography
   a. Peoples and places: Discuss, interpret, and explain differences of wealth, power, health, and well-being between and within societies, and the processes that create these patterns.
   b. Physical processes: Discuss, interpret, and explain the diversity of—and the processes responsible for—the landforms, climates, and ecosystems that constitute our planet’s physical landscapes.
   c. Reading landscapes: Deduce questions and hypotheses through clues in material landscapes.

3. Analysis and application for students who choose the Economy, Culture, and Society track
   a. Role of Space: Understand the function of boundaries, territories, places, networks, and other spatial forms in the workings of human societies.
   b. Power and landscapes: Understand the projection, protection, and contestation of power through the production of ideas, cultures, empires, and spatial forms.
   c. Roles of cities: Grasp the roles and forms of cities as records and motors of modern life, and the interactions of urban areas with hinterlands and global networks.
   d. Food systems: Compare and contrast agrarian and industrial food supply systems around the world.
   e. Society-environment interactions: Understand the mutual influences and ramifications of biophysical and social processes in the dynamics of societies at scales from the local to the global.

4. Analysis and application for students who choose the Earth Systems Science track
   a. Earth system science: Analyze interconnected environmental systems with process-based geophysical, geochemical, and biological sciences in the context of current social environmental problems.
   b. Modeling: Construct models of the earth as a system of interconnected components, highlighting forcings and feedbacks.
   c. Experiments: Formulate and apply scientific hypotheses and devise tests for them.
   d. Science and society: Analyze and evaluate the role of science in shaping social forces, and being shaped by them.

5. Application of basic skills in research, knowledge of literature, analysis, and communication
   a. Write clearly: Demonstrate ability to focus and elaborate on chosen topics.
   b. Read critically: Critically analyze and assess arguments in professional journals, public media, and advocacy literature.
   c. Empirical plus theoretical: Produce work with robust empirical research (that locates, interprets, and puts together relevant and reliable sources of information) as well as intellectual and theoretical rigor.
   d. Use of mapping: Understand the production, interpretation, and use of mapping in all its forms and scales.
   e. Applying quantitative skills: Apply basic quantitative skills such as statistics, algebra, and interpreting graphs.

f. Analytical ability: Demonstrate analytical ability: including the ability to identify questions, differentiate descriptions from explanations, make connections between empirical observations and arguments, and differentiate between competing explanations of a given phenomenon.

6. Lifetime skills
   a. Continuing concern: Show continuing concern, curiosity, and zeal for geography and for applying geographical understanding.
   b. Representing geography: Represent the usefulness of geography and geographical points of view to—depending on the circumstances—prospective employers, educators, policy makers, resource managers, developers, engineers, the public, and acquaintances.

The student academic adviser, Marjorie Ensor, helps students plan and execute their coursework in the major program and answer questions concerning requirements and course substitutions. You can make online appointments with her here: http://ensor.youcanbook.me.

Professors Laurel Larsen and Jake Kosek are the designated undergraduate faculty advisers for 2016-2017. They may be consulted on any other questions concerning the major during their office hours or by special appointment.

Students are also encouraged to seek substantive advice on academic matters from other faculty who share their interests or with whom they have had classes.

Information on general Letters & Science requirements should be obtained from a college adviser in the L&S office in 206 Evans Hall.

Geography

GEOG 1 Global Environmental Change 4 Units

Terms offered: Summer 2014 10 Week Session, Summer 2014 First 6 Week Session, Summer 2013 First 6 Week Session

The global pattern of climate, landforms, vegetation, and soils. The relative importance of natural and human-induced change, global warming, forest clearance, accelerated soil erosion, glacial/postglacial climate change and its consequences.

Global Environmental Change: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Summer: 6 weeks - 7.5 hours of lecture and 5 hours of laboratory per week

Additional Details

Subject/Course Level: Geography/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Byrne

Global Environmental Change: Read Less [+]
GEOG N1 Global Environmental Change 3 Units
Terms offered: Prior to 2007
The global pattern of climate, landforms, vegetation, and soils. The relative importance of natural and human-induced change, global warming, forest clearance, accelerated soil erosion, glacial/postglacial climate change and its consequences.
Rules & Requirements
Credit Restrictions: Students will receive no credit for Geography N1 after completing Geography 1. A deficient grade in Geography 1 maybe removed by taking Geography N1.
Hours & Format
Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG N4 World Peoples and Cultural Environments 3 Units
Terms offered: Summer 2017 Second 6 Week Session, Summer 2016 10 Week Session, Summer 2016 Second 6 Week Session
Historical and contemporary cultural-environmental patterns. The development and spread of cultural adaptations, human use of resources, transformation and creation of human environments.
Rules & Requirements
Credit Restrictions: Students will receive no credit for Geography N4 after completing Geography 4. A deficient grade in Geography 4 maybe removed by taking Geography N4.
Hours & Format
Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG 4 World Peoples and Cultural Environments 4 Units
Terms offered: Summer 2014 10 Week Session, Summer 2014 Second 6 Week Session, Summer 2013 Second 6 Week Session
Historical and contemporary cultural-environmental patterns. The development and spread of cultural adaptations, human use of resources, transformation and creation of human environments.
Rules & Requirements
Credit Restrictions: Students will receive no credit for Geography N1 after completing Geography 1. A deficient grade in Geography 1 maybe removed by taking Geography N1.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of laboratory per week
Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG 10 World Regions, Peoples, and States 4 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
This course will provide a framework for recognizing and analyzing the major distinctive regions of the world in comparative context. The most important interrelations between environment, economy, ethnicity, and the national identity and viability of states will be explored.
Rules & Requirements
Credit Restrictions: Students will receive no credit for Geography N1 after completing Geography 1. A deficient grade in Geography 1 maybe removed by taking Geography N1.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Kosek

World Regions, Peoples, and States: Read Less [-]
GEOG 20 Globalization 4 Units
How and why are geographical patterns of employment, production, and consumption unstable in the contemporary world? What are the consequences of NAFTA, an expanded European Community, and post-colonial migration flows? How is global restructuring culturally reworked locally and nationally?
Globalization: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG N20 Globalization 3 Units
Terms offered: Summer 2017 Second 6 Week Session, Summer 2016 10 Week Session, Summer 2016 Second 6 Week Session
Global economics and politics are undergoing a revolution. Transnational enterprises, international trade, and digitized finance are merging its formerly separate national economies. New regional and transnational treaties and institutions, from the EU and NAFTA to the IMF, the WTO and the World Bank, are arising to regulate the new global economy. Power is being transferred from national states to these institutions, not always smoothly or in predictable ways. This course is about this medley.
Globalization: Read More [+]

Hours & Format
Summer:
6 weeks - 7.5 hours of lecture per week
8 weeks - 5.5 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam not required.

GEOG 24 Freshman Seminar 1 Unit
Terms offered: Fall 2017, Fall 2015, Fall 2014
The Freshman Seminar Program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small seminar setting. Freshman seminars are offered in all campus departments, and topics vary from department to department and semester to semester. Enrollment limited to 15 freshmen.
Freshman Seminar: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit.

Hours & Format
Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Justices, Nature, and the Geographies of Identity 4 Units
Terms offered: Fall 2017, Spring 2014, Fall 2012
The intersection of nature, identity, and politics pepper the pages of newspapers almost every day from stories of toxic waste sites, crime, genetic engineering to indigenous struggles, and terrorist tendencies. In all these and many other cases, ideas of race, class, and gender intersect with ideas of nature and geography in often tenacious and troubling ways. Our approach will be to understand these traditional ideas of environmental justice as well as to examine less traditional sites of environmental justice such as the laboratory, the war zone, the urban mall, and the courtroom.
Justice, Nature, and the Geographies of Identity: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructors: Kosek, Lesser
Justice, Nature, and the Geographies of Identity: Read Less [-]
GEOG C32 Introduction to Development 4 Units
Terms offered: Fall 2017, Spring 2017, Fall 2015
This course is designed as an introduction to comparative development. The course will be a general service course, as well as a prerequisite for the upper division 100 series. It is assumed that students enrolled in 10 know little about life in the Third World countries and are unfamiliar with the relevant theory in political economy of development and underdevelopment. The course will be structured around three critical concepts: land, labor, and work.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 8 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Watts
Also listed as: DEV STD C10

Introduction to Development: Read More [+]

GEOG 35 Global Ecology and Development 4 Units
Terms offered: Spring 2014, Summer 2013 First 6 Week Session, Summer 2012 First 6 Week Session
Problems of Third World poverty and development have come to be seen as inseparable from environmental health and sustainability. The course explores the global and interconnected character of environment and development in the less developed world. Drawing on case studies of the environmental problems of the newly industrializing states, food problems, and environmental security in Africa, and the global consequences of tropical deforestation in Amazonia and carbon dioxide emissions in China, this course explores how growth and stagnation are linked to problems of environmental sustainability.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer: 6 weeks - 8 hours of lecture and 2 hours of discussion per week
8 weeks - 6 hours of lecture and 1.5 hours of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Watts
Also listed as: DEV STD C10

Global Ecology and Development: Read More [+]

GEOG 37 The Politics of Science and Technology 4 Units
Terms offered: Spring 2014, Spring 2012
This course examines how shifting understandings of science and technology have radically remade some of our most basic social and biological categories and concepts. The course explores the field of science and technology studies. In particular, students will explore formations and understandings of truth, objectivity, universality of science and technology, and the consequences of these cultural formations in contemporary debates around the world.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Kosek

The Politics of Science and Technology: Read Less [-]

GEOG 40 Introduction to Earth System Science 4 Units
Terms offered: Spring 2018, Fall 2017, Fall 2016
The goals of this introductory Earth System Science course are to achieve a scientific understanding of important problems in global environmental change and to learn how to analyze a complex system using scientific methods. Earth System Science is an interdisciplinary field that describes the cycling of energy and matter between the different spheres (atmosphere, hydrosphere, biosphere, cryosphere, and lithosphere) of the earth system. Under the overarching themes of human-induced climate change, stratospheric ozone depletion, and biodiversity loss, we will explore key concepts of solar radiation, plate tectonics, atmospheric and oceanic circulation, and the history of life on Earth.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week
Summer:
6 weeks - 7.5 hours of lecture and 5 hours of discussion per week
8 weeks - 5.5 hours of lecture and 4 hours of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructors: Chiang, Cuffey, Rhew, Larsen

Introduction to Earth System Science: Read Less [-]
GEOG 50AC California 4 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
California had been called "the great exception" and "America, only more so." Yet few of us pay attention to its distinctive traits and to its effects beyond our borders. California may be "a state of mind," but it is also the most dynamic place in the most powerful country in the world, and would be the 8th largest economy if it were a country. Its wealth has been built on mining, agriculture, industry, trade, and finance. Natural abundance and geographic advantage have played their parts, but the state's greatest resource has been its wealth and diversity of people, who have made it a center of technological and cultural innovation from Hollywood to Silicon Valley. Yet California has a dark side of exploitation and racialization.

California: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer:
6 weeks - 8 hours of lecture and 2 hours of discussion per week
8 weeks - 6 hours of lecture and 1.5 hours of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

California: Read Less [-]

GEOG N50AC California 3 Units
Terms offered: Summer 2017 First 6 Week Session, Summer 2016 Second 6 Week Session, Summer 2015 Second 6 Week Session
California had been called "the great exception" and "America, only more so." Yet few of us pay attention to its distinctive traits and to its effects beyond our borders. California may be "a state of mind," but it is also the most dynamic place in the most powerful country in the world, and would be the 8th largest economy if it were a country. Its wealth has been built on mining, agriculture, industry, trade, and finance. Natural abundance and geographic advantage have played their parts, but the state's greatest resource has been its wealth and diversity of people, who have made it a center of technological and cultural innovation from Hollywood to Silicon Valley. Yet California has a dark side of exploitation and racialization.

California: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Summer:
6 weeks - 8 hours of lecture per week
8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

California: Read Less [-]

GEOG C55 Introduction to Central Asia 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
This course will introduce the student not only to ancient and modern Central Asia, but also to the role played by the region in the shaping of the history of neighboring regions and regimes. The course will outline the history, languages, ethnicities, religions, and archaeology of the region and will acquaint the student with the historical foundations of some of the political, social and economic challenges for contemporary post-Soviet Central Asian republics.

Introduction to Central Asia: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

Also listed as: NE STUD C26

Introduction to Central Asia: Read Less [-]

GEOG 70AC The Urban Experience 3 Units
Terms offered: Spring 2018, Summer 2017 First 6 Week Session, Summer 2016 First 6 Week Session
We will track the historical evolution of the American city. We'll look at the economics of city life, at the organization of metropolitan political power, and at the aesthetics of the urban scene--to see how the core cultural themes of American urban life have endured over time while continuously adjusting to new circumstances. Our approach is to focus on major themes in urban life and to show how various groups have had different kinds of experiences in these urban realms.

The Urban Experience: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 6 weeks - 8 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Johns

The Urban Experience: Read Less [-]
GEOG 80 Digital Worlds: An Introduction to Geospatial Technologies 4 Units  
Terms offered: Fall 2017, Fall 2016, Fall 2015  
An introduction to the increasingly diverse range of geospatial technologies and tools including but not limited to geographical information systems (GIS). Via a mix of lecture and lab-based instruction, students will develop knowledge and skills in web-mapping and GIS. How these tools are used to represent fundamental geographic concepts, and the wider socioeconomic context of these technologies will also be explored.

Digital Worlds: An Introduction to Geospatial Technologies: Read More [+]

Rules & Requirements

Prerequisites: Basic computer literacy (e.g., Excel or similar)

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Geography/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: O'Sullivan

Digital Worlds: An Introduction to Geospatial Technologies: Read Less [-]

GEOG N80 Digital Worlds: An Introduction to Geospatial Technologies 4 Units  
Terms offered: Summer 2017 8 Week Session  
An introduction to the increasingly diverse range of geospatial technologies and tools including but not limited to geographical information systems (GIS). Via a mix of lecture and lab-based instruction, students will develop knowledge and skills in web-mapping and GIS. How these tools are used to represent fundamental geographic concepts, and the wider socioeconomic context of these technologies will also be explored.

Digital Worlds: An Introduction to Geospatial Technologies: Read More [+]

Hours & Format

Summer: 8 weeks - 3 hours of lecture and 4 hours of laboratory per week

Additional Details

Subject/Course Level: Geography/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Digital Worlds: An Introduction to Geospatial Technologies: Read Less [-]

GEOG C82 Oceans 3 Units  
Terms offered: Fall 2017, Fall 2016, Fall 2015  
This course offers multidisciplinary approach to begin answering the question "Why are oceans important to us?" Upon a physical, chemical, and geologic base, we introduce the alien world of sea life, the importance of the ocean to the global carbon cycle, and the principles of ecology with a focus on the important concept of energy flow through food webs. Lectures expand beyond science to include current topics as diverse as music, movies, mythology, biomechanics, policy, and trade.

Oceans: Read More [+]

Rules & Requirements

Credit Restrictions: Students will receive no credit for Earth and Planetary Science C82/Geography C82/Integrative Biology C82 after completing Integrative Biology 82 or Earth and Planetary Science N82.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer:
6 weeks - 7.5 hours of lecture and 2.5 hours of discussion per week
8 weeks - 5.5 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Geography/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Also listed as: EPS C82/INTEGBI C82

Digital Worlds: An Introduction to Geospatial Technologies: Read Less [-]

GEOG 88 Data Science Applications in Geography 2 Units  
Terms offered: Spring 2018, Spring 2017  
Data science methods are increasingly important in geography and earth science. This course introduces some of the particular challenges of working with spatial data arising from characteristics specific to such data. These issues will be explored in a series of modules deploying data science methods to investigate contemporary topics in geography and earth science, relating to climate science, hydrology, population census and remote sensing of environment. No prior knowledge is assumed or expected.

Data Science Applications in Geography: Read More [+]

Hours & Format

Fall and/or spring: 7 weeks - 2 hours of lecture and 4 hours of laboratory per week

Additional Details

Subject/Course Level: Geography/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Data Science Applications in Geography: Read Less [-]
GEOG 98 Directed Group Study 1 - 4 Units
Terms offered: Spring 2018, Spring 2017, Fall 2016
Lectures and small group discussion focusing on topics of interest that vary from semester to semester.
Direct Group Study: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit.
Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week
Summer: 6 weeks - 1-4 hours of directed group study per week
8 weeks - 1-4 hours of directed group study per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Directed Group Study: Read Less [-]

GEOG 100 Field Study of Cuba: Landscapes of Power, Production, Promise 6 Units
Terms offered: Summer 2017 Second 6 Week Session
Field course in the cultural geography. Using the landscape as our reference, we will explore the historical transformation of Cuban cities, town, and countryside from colonial times up to the present. Focus our exploration through two particular perspectives: attention to production in key sectors of the Cuban economy at different historical moments, and the ways their attendant forms of labor, ownership, technology, and trade shape the cultural landscape. The other major point of reference for this course is representations of Cuba as a place: what has Cuba stood for over time, to Cubans and to outsiders, and how have these stories played out in the forms and functions of the Cuban land.
Field Study of Cuba: Landscapes of Power, Production, Promise: Read More [+]
Hours & Format
Summer: 6 weeks - 15 hours of seminar per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Vasile
Field Study of Cuba: Landscapes of Power, Production, Promise: Read Less [-]

GEOG 109 Prehistoric Agriculture 4 Units
Terms offered: Fall 2014, Spring 2013, Spring 2012
Agricultural origins and dispersals in the light of recent biological and archaeological evidence.
Prehistoric Agriculture: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Byrne
Prehistoric Agriculture: Read Less [-]

GEOG 110 Economic Geography of the Industrial World 4 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
Economic Geography of the Industrial World: Read More [+]
Rules & Requirements
Prerequisites: 20 or prior courses in economic or regional development strongly suggested
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Walker
Economic Geography of the Industrial World: Read Less [-]
GEOG C112 History of Development and Underdevelopment 4 Units
Historical review of the development of world economic systems and the impact of these developments on less advanced countries. Course objective is to provide a background against which to understand and assess theoretical interpretations of development and underdevelopment.

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Hart
Also listed as: DEV STD C100

GEOG 123 Postcolonial Geographies 4 Units
Terms offered: Fall 2015, Fall 2013, Fall 2012
Postcolonial studies focus on how processes of colonialism/imperialism continue even after the formal dissolution of empire. A central argument of this course is that critical human geography can make important contributions to understanding the interconnections between forces at play in different parts of the world. Drawing on concepts of space, place, culture, power, and difference, its purpose is to provide a set of tools for grappling with the conditions in which we find ourselves, and for thinking about the possibilities for social change.

Fall and/or spring: 15 weeks - 4 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Hart

GEOG 125 The American City 4 Units
Terms offered: Fall 2014, Spring 2010, Spring 2009
The American city, palimpsest of a nation. It all comes together in the modern metropolis: economy, society, politics, culture, and geography. Cities as the economic engines of capitalism, centers of industry, finance, business, consumption, and innovation. Cities as political powers and political pawns, and the government of cities, suburbs, and metropolitan areas. Cities as magnificent constructs, built of concrete, credit and land rents, from skyscrapers to housing tracts, freeways to shopping malls, airports to open spaces. Cities as landscapes of social division by class, race and nationality, and the turf battles from mean ghetto streets to the hideaways of privilege.

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Hart

GEOG 130 Food and the Environment 4 Units
How do human populations organize and alter natural resources and ecosystems to produce food? The role of agriculture in the world economy, national development, and environmental degradation in the Global North and the Global South. The origins of scarcity and abundance, population growth, hunger and obesity, and poverty.

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructors: Sayre, Watts

Food and the Environment: Read Less [-]
GEOG N130 Food and the Environment 3 Units
Terms offered: Summer 2017 First 6 Week Session, Summer 2016 10 Week Session, Summer 2016 First 6 Week Session
How do human populations organize and alter natural resources and ecosystems to produce food? The role of agriculture in the world economy, national development, and environmental degradation in the Global North and the Global South. The origins of scarcity and abundance, population growth, hunger and obesity, and poverty.
Food and the Environment: Read More [+]

Hours & Format

Summer:
6 weeks - 7.5 hours of lecture per week
8 weeks - 5.5 hours of lecture per week

Additional Details

Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG C135 Water Resources and the Environment 3 Units
Terms offered: Spring 2018, Spring 2016
Distribution, dynamics, and use of water resources in the global environment. Water scarcity, water rights, and water wars. The terrestrial hydrologic cycle. Contemporary environmental issues in water resource management, including droughts, floods, saltwater intrusion, water contamination and remediation, river restoration, hydraulic fracturing, dams, and engineering of waterways. The role of water in ecosystem processes and geomorphology. How water resources are measured and monitored. Basic water resource calculations. Effects of climate change on water quantity, quality, and timing.
Water Resources and the Environment: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Larsen
Also listed as: ESPM C133

GEOG 136 Terrestrial Hydrology 4 Units
A quantitative introduction to the hydrology of the terrestrial environment including lower atmosphere, watersheds, lakes, and streams. All aspects of the hydrologic cycle, including precipitation, infiltration, evapotranspiration, overland flow, streamflow, and groundwater flow. Chemistry and dating of groundwater and surface water. Development of quantitative insights through problem solving and use of simple models.
This course requires one field experiment and several group computer lab assignments.
Terrestrial Hydrology: Read More [+]

Rules & Requirements

Prerequisites: Chemistry 1A, Mathematics 1A-1B, Physics 7A, or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Larsen
Also listed as: ESPM C130

GEOG 137 Top Ten Global Environmental Problems 4 Units
Terms offered: Spring 2018, Spring 2016, Spring 2015
Conceptualizing global environmental problems is difficult because of the complexity of the issues, the magnitude of the problems, and the different time scales of action versus reaction. These issues apply both to the natural earth system as well as human societies. This course will examine the scientific basis underlying the largest environmental threats, and then reframe the issues to explore the societal basis of those problems. Class is not open to freshmen.
Top Ten Global Environmental Problems: Read More [+]

Rules & Requirements

Prerequisites: Geography 40, ESPM 15, or equivalent

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam not required.
Instructor: Rhew

Top Ten Global Environmental Problems: Read Less [-]
GEOG 138 Global Environmental Politics 4 Units
Terms offered: Fall 2017, Summer 2017 Second 6 Week Session, Summer 2016 Second 6 Week Session
Political factors affecting ecological conditions in the Third World. Topics include environmental degradation, migrations, agricultural production, role of international aid, divergence in standard of living, political power, participation and decision making, access to resources, global environmental policies and treaties, political strife and war. Global Environmental Politics: Read More [+] 
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 6 weeks - 7.5 hours of lecture per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Global Environmental Politics: Read Less [-]

GEOG C139 Atmospheric Physics and Dynamics 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
This course examines the processes that determine the structure and circulation of the Earth's atmosphere. The approach is deductive rather than descriptive: to figure out the properties and behavior of the Earth's atmosphere based on the laws of physics and fluid dynamics. Topics will include interaction between radiation and atmospheric composition; the role of water in the energy and radiation balance; governing equations for atmospheric motion, mass conservation, and thermodynamic energy balance; geostrophic flow, quasigeostrophic motion, baroclinic instability and dynamics of extratropical cyclones.
Atmospheric Physics and Dynamics: Read More [+] 
Rules & Requirements
Prerequisites: Mathematics 53, 54; Physics 7A-7B-7C
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructors: Chiang, Fung
Also listed as: EPS C181
Atmospheric Physics and Dynamics: Read Less [-]

GEOG 140A Physical Landscapes: Process and Form 4 Units
Terms offered: Spring 2018, Spring 2016, Spring 2015
Understanding the physical characteristics of the Earth's surface, and the processes active on it, is essential for maintaining the long-term health of the environment, and for appreciating the unique, defining qualities of geographic regions. In this course, we build an understanding of global tectonics, rivers, hillslopes, and coastlines and discover how these act in concert with the underlying geologic framework to produce the magnificent landscapes of our planet. Through our review of formative processes, we learn how physical landscapes change and are susceptible to human modifications, which are often unintentional.
Physical Landscapes: Process and Form: Read More [+] 
Rules & Requirements
Prerequisites: 1 or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Cuffey
Physical Landscapes: Process and Form: Read Less [-]

GEOG 140B Physiography and Geomorphologic Extremes 4 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
In this course we review the physical landscapes and surface processes in extreme environments: hot arid regions, glacial and periglacial landscapes, and karst terrane. Using this knowledge, plus an understanding of tectonics and temperate watersheds (gained from prerequisite courses), we explore how unique combinations of geomorphic processes acting on tectonic and structural provinces have created the spectacular and diverse landscapes of North America. Regions to be explored include the Colorado Plateau, Sierra Nevada, North Cascades, Northern and Southern Rockies, Great Plains, Appalachian Highlands, and Mississippi Delta.
Physiography and Geomorphologic Extremes: Read More [+] 
Rules & Requirements
Prerequisites: 140A (formerly 140), or Geology 117, or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam not required.
Instructor: Cuffey
Physiography and Geomorphologic Extremes: Read Less [-]
GEOG 142 Climate Dynamics 4 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
The course presents a conceptual basis for understanding of the workings of the global climate system, and how they conspire to bring about change. The goal is to give the student a climate dynamics basis for understanding global climate change. Covered topics include observations of the climate system; the earth’s energy balance; atmospheric radiative transfer; atmospheric circulation; the role of the ocean and the cryosphere; climate variability on various timescales; climate feedbacks and climate change.
Climate Dynamics: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor needed if student has not taken an introductory-level undergraduate physics course

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Chiang
Climate Dynamics: Read Less [-]

GEOG 143 Global Change Biogeochemistry 3 Units
Terms offered: Fall 2014, Spring 2013, Spring 2009
How does the chemical makeup of Earth make it suitable for life? And how does life in turn alter the chemistry of our planet? Biogeochemistry is the field of science that explores the imprint of biota (including humans) on the chemistry of the ocean, land and atmosphere. This interdisciplinary field addresses global problems, including climate change feedbacks, air quality, land use change, and marine ecosystem health. We will provide an overview of the major biogeochemical cycles, discuss the biogeochemistry of major ecosystems, and introduce the major biogeochemical questions being asked today. We also cover measurement techniques, including hands-on activities to introduce students to experimental methods and data analysis.
Global Change Biogeochemistry: Read More [+]

Rules & Requirements
Prerequisites: Chemistry 1A or equivalent

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Rhew
Global Change Biogeochemistry: Read Less [-]

GEOG 144 Principles of Meteorology 3 Units
Terms offered: Spring 2011, Fall 2008, Fall 2004
Weather development in relation to different scales of atmospheric circulation including analysis and forecasting with examples from the Northeastern Pacific-Western North American area.
Principles of Meteorology: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Principles of Meteorology: Read Less [-]

GEOG C145 Geological Oceanography 4 Units
Terms offered: Fall 2011, Spring 2010, Spring 2008
The tectonics and morphology of the sea floor, the geologic processes in the deep and shelf seas, and the climatic record contained in deep-sea sediments. The course will cover sources and composition of marine sediments, sea-level change, ocean circulation, paleoenvironmental reconstruction using fossils, imprint of climatic zonation on marine sediments, marine stratigraphy, and ocean floor resources.
Geological Oceanography: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 3 hours of laboratory per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Ingram
Formerly known as: Geology C145
Also listed as: EPS C146
Geological Oceanography: Read Less [-]
**GEOG C146 Communicating Ocean Science 4 Units**
Terms offered: Spring 2018, Spring 2016, Spring 2015
For undergraduates interested in improving their ability to communicate their scientific knowledge by teaching ocean science in elementary schools or science centers/aquariums. The course will combine instruction in inquiry-based teaching methods and learning pedagogy with six weeks of supervised teaching experience in a local school classroom or the Lawrence Hall of Science with a partner. Thus, students will practice communicating scientific knowledge and receive mentoring on how to improve their presentations.

**Rules & Requirements**
Prerequisites: One course in introductory biology, geology, chemistry, physics, or marine science required and interest in ocean science; junior, senior, or graduate standing; consent of instructor required for sophomores

**Hours & Format**
Fall and/or spring: 15 weeks - 2.5 hours of lecture, 1 hour of discussion, and 2 hours of fieldwork per week

**Additional Details**
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Ingram
Also listed as: EPS C100/INTEGBI C100

Communicating Ocean Science: Read More [+]

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**GEOG 147 Communicating Climate Science 3 Units**
Terms offered: Fall 2017, Fall 2016, Fall 2015
For upper division undergraduate students interested in improving their conceptual understanding of climate science and climate change through engaging in activities, demonstrations, and discussions, while also developing their science communication skills to advance the public’s climate literacy. The course will combine science content, active teaching and learning methods based on how people learn, and how to engage in effective interactions.

**Objectives Outcomes**
Course Objectives: As a result of this course, students will be able to 1) describe and use models to illustrate the processes, interactions and mechanisms contributing to climate change; 2) demonstrate an understanding of how people learn, and the importance and impact of social, cultural and worldview belief systems on behavior related to climate change, through effectively communicating ideas and engaging in meaningful discussions with diverse, non-expert audiences.

**Rules & Requirements**
Prerequisites: Prior coursework in climate change science

**Hours & Format**
Fall and/or spring: 15 weeks - 3 hours of lecture per week

**Additional Details**
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructors: Rhew, Halversen, Chiang

Communicating Climate Science: Read Less [-]

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**GEOG 148 Biogeography 4 Units**
Terms offered: Fall 2015, Spring 2015, Spring 2014
Changing distribution patterns of plants and animals on a variety of spatial and temporal scales. The effects of "continental drift," Pleistocene climatic change, agricultural origins and dispersals. The ecology of invasions and extinctions. Island biogeography.

**Rules & Requirements**
Prerequisites: 1 or a lower division course in Biology or Earth Science

**Hours & Format**
Fall and/or spring: 15 weeks - 3 hours of lecture per week

**Additional Details**
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Byrne

Biogeography: Read Less [-]
GEOG C155 Race, Space, and Inequality 4 Units
Terms offered: Spring 2018, Spring 2017
This course examines the spatial configurations of inequality and poverty and their relationship to race through an analysis of the historical, theoretical and ethnographic conceptualizations, practices, and lived experiences of that relationship. The course will cover the topics of race, space, and inequality through four interwoven thematic lenses of formation, implementation, normalization, and resistances.
Race, Space, and Inequality: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Lewis
Also listed as: AFRICAM C156
Race, Space, and Inequality: Read Less [-]

GEOG 157 The Politics of the Anthropocene 4 Units
Terms offered: Not yet offered
This course seeks to trace the rise of the anthropogenic epoch as a political epistemology, changing material milieu, and amorphous and contested political signifier. The notion of the Anthropocene challenges the very boundaries of nature and culture that have plagued and defined modernity. Natural forces and inanimate objects from storms and bodies, ocean flows and river currents, soil layers and chemical reactions are more and more commonly understood as always already natural-cultural. What are the differential ways that the universal categories of the human at the heart of the concept of the Anthropocene mask the differential responsibility and liability for these epochal changes?
The Politics of the Anthropocene: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Kosek
Also listed as: CHICANO C161
The Politics of the Anthropocene: Read Less [-]

GEOG C157 Central American Peoples and Cultures 4 Units
Terms offered: Spring 2014, Fall 2012, Spring 2011, Fall 2004
A comparative survey of the peoples and cultures of the seven countries of the Central American Isthmus from a historical and contemporary perspective.
Central American Peoples and Cultures: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Manz
Also listed as: AFRICAM C156
Central American Peoples and Cultures: Read Less [-]

GEOG 159AC The Southern Border 4 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
The southern border--from California to Florida--is the longest physical divide between the First and Third Worlds. This course will examine the border as a distinct landscape where North-South relations take on a specific spatial and cultural dimension, and as a region which has been the testing ground for such issues as free trade, immigration, and ethnic politics.
The Southern Border: Read More [+]

Rules & Requirements
Prerequisites: Upper division standing
Requirements this course satisfies: Satisfies the American Cultures requirement

Hours & Format
Fall and/or spring: 15 weeks - 3-3 hours of lecture and 1-1 hours of discussion per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructors: Manz, Shaiken
Also listed as: EDUC 186AC/ETH STD 159AC
The Southern Border: Read Less [-]
GEOG 160B American Cultural Landscapes 4 Units
Terms offered: Spring 2016, Spring 1997, Spring 1996
Introduces ways of seeing and interpreting American histories and cultures, as revealed in everyday built surroundings--homes, highways, farms, factories, stores, recreation areas, small towns, city districts and regions. Encourages students to read landscapes as records of past and present social relations, and to speculate for themselves about cultural meaning.
American Cultural Landscapes: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Ekman
American Cultural Landscapes: Read Less [-]

GEOG C160A American Cultural Landscapes, 1600 to 1900 4 Units
Terms offered: Fall 2014, Fall 2013, Fall 2012, Fall 2011
Introduces ways of seeing and interpreting American histories and cultures, as revealed in everyday built surroundings--houses, highways, farms, factories, stores, recreation areas, small towns, city districts, and regions. Encourages students to read landscapes as records of past and present social relations and to speculate for themselves about cultural meaning.
American Cultural Landscapes, 1600 to 1900: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Groth
Also listed as: AMERSTD C112A/ENV DES C169A
American Cultural Landscapes, 1600 to 1900: Read Less [-]

GEOG C160B American Cultural Landscapes, 1900 to Present 4 Units
Introduces ways of seeing and interpreting American histories and cultures, as revealed in everyday built surroundings--homes, highways, farms, factories, stores, recreation areas, small towns, city districts, and regions. Encourages students to read landscapes as records of past and present social relations, and to speculate for themselves about cultural meaning.
American Cultural Landscapes, 1900 to Present: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Groth
Also listed as: AMERSTD C112B/ENV DES C169B
American Cultural Landscapes, 1900 to Present: Read Less [-]

GEOG 164 The Geography of Economic Development in China 4 Units
Terms offered: Spring 2017, Spring 2015, Spring 2013
This course focuses on four issues in contemporary China: (1) the transformation of the socialist state, (2) the environmental politics, (3) the interplay of gender and class in the transitional society, (4) urban expansion and the changing rural-urban dynamics, and (5) global China. Each of these issues will be examined with reference to critical theories of development and histories of China’s modernization. This is a lecture course designed mainly for upper level undergraduate students with preliminary background in East Asian-Chinese studies or development studies.
The Geography of Economic Development in China: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Hsing
The Geography of Economic Development in China: Read Less [-]
GEOG 170 Special Topics in Geography 3 Units
Terms offered: Fall 2017, Spring 2017, Fall 2016
This course is designed to provide a vehicle for instructors to address a topic with which they are especially concerned; usually more restricted than the subject matter of a regular lecture course. Topics will vary with instructor. See departmental announcements.

Rules & Requirements
Repeat rules: Course may be repeated for credit with different topic. Course may be repeated for credit when topic changes.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG 171 Special Topics in Physical Geography 3 Units
Terms offered: Fall 2016, Summer 2016 First 6 Week Session, Fall 2015
This course is designed to provide a vehicle for instructors to address a topic in physical geography with which they are especially concerned; usually more restricted than the subject matter of a regular lecture course. Topics will vary with instructor. See departmental announcements.

Rules & Requirements
Repeat rules: Course may be repeated for credit as topic varies. Course may be repeated for credit when topic changes.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG 172 Topics in Social Geography 4 Units
Terms offered: Fall 2012, Fall 2011, Fall 2009
This course is designed to provide a vehicle for instructors to address a topic in social geography with which they are especially concerned; usually more restricted than the subject matter of a regular lecture course. Topics will vary with instructor. See departmental announcements.

Rules & Requirements
Repeat rules: Course may be repeated for credit with different instructor or different topic. Course may be repeated for credit when topic changes.

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.

GEOG 173A Cross-listed Topics in Human Geography 1 - 4 Units
Terms offered: Spring 2010, Spring 2007
This course is designed to accommodate cross-listed courses offered through other departments, the content of which is applicable to geography majors. Content and unit values vary from course to course.

Rules & Requirements
Repeat rules: Course may be repeated for credit.

Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
GEOG 175 Undergraduate Seminars 4 Units
Terms offered: Fall 2015, Fall 2014, Fall 2013
A reading and research seminar for undergraduate students. Topics will
vary with instructor.
Undergraduate Seminars: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit. Course may be
repeated for credit with different topic and consent of instructor. Course
may be repeated for credit when topic changes.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Undergraduate Seminars: Read Less [-]

GEOG C179A GC-Maker Lab I: Skills and Theory 2 Units
Terms offered: Fall 2016
In the environmental and biological sciences, one of the biggest
challenges in transitioning from student to researcher is learning how
to measure something without an off-the-shelf device. This course
will provide the theoretical background and the practice of building a
Gas Chromatograph (GC) system for environmental research. The
first semester is for students who seek to develop fundamental skills in
instrumental development and design. The second semester (c179b)
is only open to those who have taken this first semester course and will
entail the construction of a working gas chromatograph system. This
class will be especially useful for students who wish to pursue research
following graduation.
GC-Maker Lab I: Skills and Theory: Read More [+]
Rules & Requirements
Prerequisites: Chem 3AL, or instructor permission
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of laboratory per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Rhew
Also listed as: ESPM C179A
GC-Maker Lab I: Skills and Theory: Read Less [-]

GEOG C179B GC-Maker Lab II: Instrument development 4 Units
Terms offered: Spring 2017
In the environmental and biological sciences, one of the biggest
challenges in transitioning from student to researcher is learning how
to measure something without an off-the-shelf device. This course
will involve the actual building a gas chromatograph (GC) system
for environmental research. In addition, we will provide the option of
building a mini datalogging sensor for measuring basic environmental
parameters using the Arduino platform. This course offered in the spring
semester is only open to those who have taken this first semester course
(c179A), which covers the fundamental skills required to undertake this
project. This class is designed for upper division undergraduates to early
graduate students.
GC-Maker Lab II: Instrument development: Read More [+]
Rules & Requirements
Prerequisites: Chem 3AL, GC-Maker Lab I (fall semester)
Hours & Format
Fall and/or spring: 15 weeks - 6 hours of laboratory per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Rhew
Also listed as: ESPM C179B
GC-Maker Lab II: Instrument development: Read Less [-]

GEOG 180 Field Methods for Physical Geography 5 Units
Field introduction to geomorphology, biogeography, and California
landscapes. Students conduct field experiments and mapping exercises.
Results of field projects are analyzed and presented as a technical report.
Oral field reports are required for some trips.
Field Methods for Physical Geography: Read More [+]
Rules & Requirements
Prerequisites: 1 or equivalent, and consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of lecture per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Rhew
Also listed as: ESPM C179A
Field Methods for Physical Geography: Read Less [-]
**GEOG 181 Urban Field Study 4 Units**
Terms offered: Spring 2016, Fall 2015, Fall 2014
Introduction to the metropolitan Bay Area: its history, economy, social makeup. Evolution of urban landscapes and spatial patterns. Social justice and conflict in the city. Business and industry location, real estate and housing, producing and consuming in the city. Regional characteristics of class, race, gender and politics.
Urban Field Study: Read More [+]

**Rules & Requirements**
Prerequisites: Consent of instructor

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**GEOG 182 Field Study of Buildings and Cities 3 Units**
Terms offered: Summer 2017 First 6 Week Session, Summer 2016 First 6 Week Session
Traveling on foot and by BART—and with on-site lectures and discussions about architecture, urban design, cultural landscapes, and spatial patterns in Berkeley, Oakland, San Francisco, and Pleasanton —students in this course will explore the historical geography of the American city since 1850. Enrollment limited to 25 students. No pre-requisites. Both undergraduate and graduate students are welcome.
Field Study of Buildings and Cities: Read More [+]

**Objectives Outcomes**
Course Objectives: The goal of this course is to introduce ways of seeing various building types, street and block forms, land use patterns, and other cultural features of the Bay Area as records of social relations and of repeating processes of American geographical history: cyclical periods of investment and disinvestment, migration and immigration, economic production and consumption, connection and disconnection, reinforcement of individual and social identities, as well as day-to-day maintenance and care

**Hours & Format**
Summer: 6 weeks - 7.5 hours of lecture per week

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**GEOG 183 Cartographic Representation 5 Units**
Terms offered: Spring 2018, Fall 2017, Spring 2017
Problems in the representation of quantitative and qualitative data on thematic maps.
Cartographic Representation: Read More [+]

**Hours & Format**
Fall and/or spring: 15 weeks - 2 hours of lecture and 4 hours of laboratory per week

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**GEOG 185 Earth System Remote Sensing 3 Units**
This lecture-lab course is focused on Earth system remote sensing applications, including a survey of methods and an accompanying lab. This first part of the course will cover general principles, image acquisition and interpretation, and analytical approaches. The second part will cover global change remote sensing applications that will include terrestrial ecosystems, Earth sciences, the hydrosphere, and human land-use.
Earth System Remote Sensing: Read More [+]

**Hours & Format**
Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of laboratory per week

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**GEOG 186 Cartographic Representation**
Terms offered: Spring 2018, Fall 2017, Spring 2017
Problems in the representation of quantitative and qualitative data on thematic maps.
Cartographic Representation: Read More [+]

**Hours & Format**
Fall and/or spring: 15 weeks - 2 hours of lecture and 4 hours of laboratory per week

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Instructor:
Chambers
Earth System Remote Sensing: Read Less [-]
GEOG 187 Geographic Information Analysis
4 Units
A spatial analytic approach to digital mapping and GIS. Given that
recording the geolocation of scientific, business and social data is
now routine, the question of what we can learn from the spatial aspect
of data arises. This class looks at challenges in analyzing spatial
data, particularly scale and spatial dependence. Various methods
are considered such as hotspot detection, interpolation, and map
overlay. The emphasis throughout is hands on and practical rather than
theoretical.
Rules & Requirements
Prerequisites: Basic computer literacy, e.g., Excel or similar, some
previous GIS or mapping useful, but not required
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 4 hours of
laboratory per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: O’Sullivan

GEOG C188 Geographic Information Systems
4 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
This course introduces the student to the rapidly expanding field of
Geographic Information Systems (GIS). It addresses both theory and
application and provides the student with a dynamic analytical framework
within which temporal and spatial data and information is gathered,
integrated, interpreted, and manipulated. It emphasizes a conceptual
appreciation of GIS and offers an opportunity to apply some of those
concepts to contemporary geographical and planning issues.
Rules & Requirements
Prerequisites: Some computer experience
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of
laboratory per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Radke
Formerly known as: C188X
Also listed as: LD ARCH C188

GEOG H195A Honors Course 1 - 4 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Required for Honors in Geography. Students will write a thesis. One or
two semesters, at the instructor’s option; if two semesters, credit and
grade to be awarded upon completion of the sequence.
Rules & Requirements
Prerequisites: Admission to Honors Program
Repeat rules: Course may be repeated for credit.
Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of independent study per week
Summer:
6 weeks - 2.5-10 hours of independent study per week
8 weeks - 1.5-7.5 hours of independent study per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. This is part one of a year long
series course. A provisional grade of IP (in progress) will be applied and
later replaced with the final grade after completing part two of the series.
Final exam not required.
Instructor: Read Less [-]

GEOG H195B Honors Course 1 - 4 Units
Terms offered: Spring 2018, Spring 2017, Fall 2016
Required for Honors in Geography. Students will write a thesis. One or
two semesters, at the instructor’s option; if two semesters, credit and
grade to be awarded upon completion of the sequence.
Rules & Requirements
Prerequisites: Admission to Honors Program
Repeat rules: Course may be repeated for credit.
Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of independent study per week
Summer:
6 weeks - 2.5-10 hours of independent study per week
8 weeks - 1.5-7.5 hours of independent study per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. This is part two of a year long
series course. Upon completion, the final grade will be applied to both
parts of the series. Final exam not required.
Instructor: Read Less [-]
GEOG 197 Field Study in Geography 1 - 4 Units
Terms offered: Spring 2018, Fall 2017, Fall 2016
Supervised experience in application of geography in off-campus organizations. Regular individual meetings with faculty sponsor and written reports required.
Field Study in Geography: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer:
6 weeks - 1-4 hours of independent study per week
8 weeks - 1-5 hours of independent study per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Field Study in Geography: Read Less [-]

GEOG 198 Directed Group Study 1 - 4 Units
Terms offered: Spring 2018, Spring 2017, Fall 2016
Directed Group Study: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit.

Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week
Summer:
6 weeks - 2.5-7.5 hours of directed group study per week
8 weeks - 1.5-7.5 hours of directed group study per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Directed Group Study: Read Less [-]

GEOG 199 Supervised Independent Study 1 - 4 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Supervised Independent Study: Read More [+]

Rules & Requirements
Prerequisites: Senior standing. Overall GPA in major of 3.00
Repeat rules: Course may be repeated for credit.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer:
6 weeks - 1-5 hours of independent study per week
8 weeks - 1-5 hours of independent study per week

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.
Supervised Independent Study: Read Less [-]