Geography (GEOG)

Courses

Expand all course descriptions [+]
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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. Global Environmental Change: Read More [+]

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 4 World Peoples and Cultural Environments 4 Units
Terms offered: Summer 2019 Second 6 Week Session, Summer 2018 Second 6 Week Session, Summer 2017 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. World Peoples and Cultural Environments: Read More [+]

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 N4 World Peoples and Cultural Environments 3 Units
Terms offered: Summer 2019 Second 6 Week Session, Summer 2018 Second 6 Week Session, Summer 2017 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. World Peoples and Cultural Environments: Read More [+]

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 10 Worldings - Regions, Peoples and States 4 Units**

Terms offered: Fall 2018, Fall 2017, Fall 2016

Geography is a way of thinking deeply and expansively about the world we inhabit and this course is designed to transform how you think about, understand and engage in its makings and re-makings. Ideas central to the field of geography such as space, nature, empire and globalization animate the histories and politics of each of these issues and many other cases. Our approach will not be to simply learn about the regions of the world, but to think critically and geographically about how region’s, peoples and states and other foundational concepts have come into being and how they might be otherwise.

Objectives Outcomes

**Student Learning Outcomes:**

# Discuss how some of the most consequential forces of modernity organized people into populations; lands into territory; and nations into states.

# Discuss the violent and contested history surrounding the organization of regions, parks, cities, and neighborhoods whose enduring forms produce and reproduce racism, poverty, and gender inequalities.

# Explain the practices and processes through which we have transformed climates, oceans, landforms and hydrological cycles and how these changes are creating new vastly uneven vulnerabilities.

# Apply a solid working knowledge of how to approach politics with a geographic mindset.

# Articulate a critical understanding of the core themes in human geography (Space, Nature, Empire, and Globalization) and explain their role in constituting the contemporary world.

# Imagine new possibilities and alternative ways of engaging in and critically thinking about key geopolitical, social, and environmental issues that shape our modern 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.

**GEOG 20 Globalization 4 Units**

Terms offered: Spring 2019, Spring 2018, Spring 2017

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?

Objectives Outcomes

**Student Learning Outcomes:**

# Discuss how some of the most consequential forces of modernity organized people into populations; lands into territory; and nations into states.

# Discuss the violent and contested history surrounding the organization of regions, parks, cities, and neighborhoods whose enduring forms produce and reproduce racism, poverty, and gender inequalities.

# Explain the practices and processes through which we have transformed climates, oceans, landforms and hydrological cycles and how these changes are creating new vastly uneven vulnerabilities.

# Apply a solid working knowledge of how to approach politics with a geographic mindset.

# Articulate a critical understanding of the core themes in human geography (Space, Nature, Empire, and Globalization) and explain their role in constituting the contemporary world.

# Imagine new possibilities and alternative ways of engaging in and critically thinking about key geopolitical, social, and environmental issues that shape our modern 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.

**GEOG N20 Globalization 3 Units**

Terms offered: Summer 2019 Second 6 Week Session, Summer 2018 Second 6 Week Session, Summer 2017 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.

Objectives Outcomes

**Student Learning Outcomes:**

# Discuss how some of the most consequential forces of modernity organized people into populations; lands into territory; and nations into states.

# Discuss the violent and contested history surrounding the organization of regions, parks, cities, and neighborhoods whose enduring forms produce and reproduce racism, poverty, and gender inequalities.

# Explain the practices and processes through which we have transformed climates, oceans, landforms and hydrological cycles and how these changes are creating new vastly uneven vulnerabilities.

# Apply a solid working knowledge of how to approach politics with a geographic mindset.

# Articulate a critical understanding of the core themes in human geography (Space, Nature, Empire, and Globalization) and explain their role in constituting the contemporary world.

# Imagine new possibilities and alternative ways of engaging in and critically thinking about key geopolitical, social, and environmental issues that shape our modern world.

**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 2018, Fall 2017, Fall 2015
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.

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

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.

GEOG 31 Justice, 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 [+]

Rules & Requirements
Credit Restrictions: Students will receive no credit for GLOBAL C10A (http://guide.berkeley.edu/search/?P=GLOBAL%20C10A)/GEOG C32 (http://guide.berkeley.edu/search/?P=GEOG%20C32) after taking DEV STD C10, GEOG C32 (http://guide.berkeley.edu/search/?P=GEOG%20C32), GLOBAL 10A (http://guide.berkeley.edu/search/?P=GLOBAL%2010A), or PACS 10 (http://guide.berkeley.edu/search/?P=PACS%2010).

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. Alternative to final exam.
Formerly known as: Development Studies C10/Geography C32
Also listed as: GLOBAL C10A

Introduction to Global Studies: Read Less [-]

GEOG C32 Introduction to Global Studies 4 Units
Terms offered: Fall 2018, Fall 2017, Spring 2017
This course is designed as an introduction to Global Studies. Using a social science approach, the course prepares students to think critically about issues of international development, conflict, and peace in a variety of societies around the world. As such, it provides students with a basic theoretical introduction to the impact of global interaction as well as an opportunity to explore such interaction in a variety of case studies.

Introduction to Global Studies: Read More [+]

Rules & Requirements
Credit Restrictions: Students will receive no credit for GLOBAL C10A (http://guide.berkeley.edu/search/?P=GLOBAL%20C10A)/GEOG C32 (http://guide.berkeley.edu/search/?P=GEOG%20C32) after taking DEV STD C10, GEOG C32 (http://guide.berkeley.edu/search/?P=GEOG%20C32), GLOBAL 10A (http://guide.berkeley.edu/search/?P=GLOBAL%2010A), or PACS 10 (http://guide.berkeley.edu/search/?P=PACS%2010).

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. Alternative to final exam.
Formerly known as: Development Studies C10/Geography C32
Also listed as: GLOBAL C10A

Introduction to Global Studies: Read Less [-]
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.

Global Ecology and Development: 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.
Instructor: Watts

Global Ecology and Development: Read Less [-]

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.

The Politics of Science and Technology: 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: Kosek

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

GEOG 40 Introduction to Earth System Science 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
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.

Introduction to Earth System Science: 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
8 weeks - 5.5 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.
Instructors: Chiang, Cuffey, Rhew, Larsen

Introduction to Earth System Science: Read Less [-]

GEOG 50AC California 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
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 [-]
University of California, Berkeley

GEOG N50AC California 3 Units
Terms offered: Summer 2019 First 6 Week Session, Summer 2018 First 6 Week Session, Summer 2017 First 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.

GEOG C55 Introduction to Central Asia 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
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.

GEOG 70AC The Urban Experience 3 Units
Terms offered: Summer 2019 Second 6 Week Session, Spring 2019, Summer 2018 Second 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.

GEOG 80 Digital Worlds: An Introduction to Geospatial Technologies 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
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.

Rules & Requirements
Prerequisites: Basic computer literacy (e.g., Excel or similar)
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture 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 2019 8 Week Session, Summer 2018 8 Week Session, 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 88 Data Science Applications in Geography 2 Units
Terms offered: Spring 2019, 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 2019, Spring 2018, Spring 2017
Lectures and small group discussion focusing on topics of interest that vary from semester to semester.
Directed Group Study: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

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 110 Economic Geography of the Industrial World 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Industrialization, urbanization, and economic growth in the global North. Locational patterns in manufacturing, retailing, trade, and finance. Geographic dynamics of technical change, employment, business organization, resource use, and divisions of labor. Property, labor, and social conflict as geographic forces. Local, national, and continental rivalries in a global economy, and challenges to U.S. dominance. 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 Global Development: Theory, History, Geography 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
This course examines whether the convergence between the 'new Right' and the 'new Left' has successfully addressed the central challenge of contemporary global development studies. It asks students to assess the multiple, nonlinear, and interconnected paths of change in Africa, Asia, Latin America, and the Middle East that are now taking place. It explores the context of intensified global integration and capitalist development. Students will consider what changes in this context mean for larger social change, especially given ongoing global economic crises and rapidly evolving relations. Global Development: Theory, History, Geography: Read More [+]
Rules & Requirements
Credit Restrictions: Students can replace deficient grades in DEV STD C100, GLOBAL C100D (http://guide.berkeley.edu/search/?P=GLOBAL%20C100D), GEOG C112 (http://guide.berkeley.edu/search/?P=GEOG%20C112), or GLOBAL 100D (http://guide.berkeley.edu/search/?P=GLOBAL%20100D) by passing GLOBAL C100D (http://guide.berkeley.edu/search/?P=GLOBAL%20C100D), GEOG C112 (http://guide.berkeley.edu/search/?P=GEOG%20C112), or GLOBAL 100D (http://guide.berkeley.edu/search/?P=GLOBAL%20100D).
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.
Formerly known as: Development Studies C100/Geography C112
Also listed as: GLOBAL C100D
Global Development: Theory, History, Geography: Read Less [-]

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. Postcolonial Geographies: 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: Hart
Postcolonial Geographies: Read Less [-]
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.
The American City: 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.
The American City: Read Less [-]

GEOG 130 Food and the Environment 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
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
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.
Food and the Environment: Read Less [-]

GEOG N130 Food and the Environment 3 Units
Terms offered: Summer 2019 First 6 Week Session, Summer 2018 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.
Food and the Environment: Read Less [-]

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
Water Resources and the Environment: Read Less [-]
GEOG C136 Terrestrial Hydrology 4 Units
Terms offered: Spring 2019, Spring 2017, Spring 2015, Spring 2014, Fall 2005
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
Terrestrial Hydrology: Read Less [-]

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 (http://guide.berkeley.edu/search/?P=ESPM%2015), or equivalent

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. Alternative to final exam.
Instructor: Rhew

Top Ten Global Environmental Problems: Read Less [-]

GEOG 138 Global Environmental Politics 4 Units
Terms offered: Summer 2019 First 6 Week Session, Fall 2018, Summer 2018 First 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 2018, Fall 2017, Fall 2016
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 2019, Spring 2018, Spring 2016
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.

GEOG 140B Physiography and Geomorphologic Extremes 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
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.

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.

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.
**GEOG 144 Principles of Meteorology 3 Units**
Terms offered: Spring 2019, Spring 2011, Fall 2008
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.
Communicating Ocean Science: Read More [+]  
**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 Less [-]
GEOG 147 Communicating Climate Science 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
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

Biogeography: Read More [+]

GEOG C148 Biogeography 4 Units
Terms offered: Fall 2018
The course will provide a historical background for the field of biogeography and the ecological foundations needed to understand the distribution and abundance of species and their changes over time. It will also discuss developing technologies (including genomic tools and environmental models) together with the availability of big data and increasingly sophisticated analytical tools to examine the relevance of the field to global change biology, conservation, and invasion biology, as well as sustainable food systems and ecosystem services.

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: BIO 1B

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: Gillespie

Also listed as: ESPM C125/INTEGBI C166

Biogeography: Read Less [-]
GEOG 149 Climates of the World 3 Units
Terms offered: Fall 1997, Fall 1996
This course provides a very basic description of atmospheric physics and dynamics at the large scale, followed by region-specific climate systems and response. We examine the inter-relationships between the role of climate variations and change to impacts, risk and adaptation. Each week’s reading will be integrated into class participation with examples from recent weather events. Class begins with a brief weather review that focuses on a specific geographic region, followed by the topic of the day, a break, and class discussion of weather events and impacts related to the topic. There will be four homework sets, four quizzes, a mid-term and final exam.
Climates of the World: Read More [-]

Objectives Outcomes

Course Objectives: This course is geared to students in the social sciences with an interest in understanding climate processes and climate change. The objectives are to provide a foundation in basic meteorological processes derived primarily from conservation laws. Through repetition with applications to the real world and reinforcement of concepts students with little mathematical training will grasp the main concepts and apply their understanding to understand climate trends.

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.
Climates of the World: Read Less [-]

GEOG 155 Race, Space, and Inequality 4 Units
Terms offered: Spring 2019, 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.
Race, Space, and Inequality: Read Less [-]

GEOG 157 The Politics of the Anthropocene 4 Units
Terms offered: Prior to 2007
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
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: CHICANO C161
Central American Peoples and Cultures: Read Less [-]
**GEOG 159AC The Southern Border 4 Units**

Terms offered: Fall 2018, Fall 2017, Fall 2016

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 [-]

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**GEOG 160 American Landscapes: History, Culture, and the Built Environment 4 Units**

Terms offered: Spring 2019

This course introduces ways of seeing, describing, interpreting, and speculating on how everyday American built environments have given shape and meaning to social life. To that end, it surveys transformations in the country’s vernacular urban, suburban, and (to some extent) rural landscapes, at several scales: houses, yards, storefronts, parks, street patterns, workplaces, transit infrastructures, billboards, gas stations, and more. Addressed at one level to landscape as material culture, the course also assembles an eclectic intellectual history of lay and official attempts to study, define, critique, make sense of, represent, and intervene on ordinary Americans and their space. Readings include primary as well as secondary sources.

American Landscapes: History, Culture, and the Built Environment: 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

**Also listed as:** AMERSTD C112A/ENV DES C169A

American Cultural Landscapes: Read Less [-]

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**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 [-]

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**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
Terms offered: Spring 2017, Spring 2015, Spring 2014
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 3 Units
Terms offered: Spring 2019, Spring 2017, Spring 2015
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 seminar per week
Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Hsing
The Geography of Economic Development in China: Read Less [-]

GEOG 170 Special Topics in Geography 3 Units
Terms offered: Spring 2019, Spring 2018, Fall 2017
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.
Special Topics in Geography: Read More [+]
Rules & Requirements
Repeat rules: 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.
Special Topics in Geography: Read Less [-]

GEOG 171 Special Topics in Physical Geography 3 Units
Terms offered: Fall 2018, Fall 2016, Summer 2016 First 6 Week Session
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.
Special Topics in Physical Geography: Read More [+]
Rules & Requirements
Repeat rules: 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: The grading option will be decided by the instructor when the class is offered. Final exam required.
Special Topics in Physical Geography: Read Less [-]
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.
Topics in Social Geography: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit with instructor consent.
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.
Topics in Social Geography: Read Less [-]

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.
Cross-listed Topics in Human Geography: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
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.
Cross-listed Topics in Human Geography: Read Less [-]

GEOG 175 Undergraduate Seminars 4 Units
Terms offered: Fall 2018, Fall 2015, Fall 2014
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 with instructor consent.
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  
Terms offered: Spring 2019, Spring 2018, Spring 2017
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: Groth

Field Methods for Physical Geography: Read Less [-]

GEOG 181 Urban Field Study 4 Units  
Terms offered: Spring 2019, Spring 2016, Fall 2015
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

Hours & Format

Fall and/or spring: 15 weeks - 9 hours of fieldwork per week

Additional Details

Subject/Course Level: Geography/Undergraduate

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

Instructor: Rhew

GEOG 182 Field Study of Buildings and Cities 3 Units  
Terms offered: Summer 2019 First 6 Week Session, Summer 2018 First 6 Week Session, Summer 2017 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

Additional Details

Subject/Course Level: Geography/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Groth

Field Study of Buildings and Cities: Read Less [-]
GEOG 183 Cartographic Representation 5 Units
Terms offered: Fall 2018, Spring 2018, Fall 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

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

GEOG 185 Earth System Remote Sensing 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
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

Additional Details
Subject/Course Level: Geography/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Cowart
Web Cartography: Read Less [-]

GEOG 186 Web Cartography 5 Units
Terms offered: Spring 2019, Summer 1999 10 Week Session, Summer 1998 10 Week Session
This course will focus on the application of cartographic principles to the design of interactive web maps. We will explore the capabilities and limits of web tools for representing geographic data and examine how recent developments in geospatial technologies have influenced how we both use and produce maps. Students will create their own thematic web maps.
Web Cartography: Read More [+]

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. Alternative to final exam.
Instructor: Cowart

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.
Geographic Information Analysis: Read More [+]

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
Geographic Information Analysis: Read Less [-]
GEOG C188 Geographic Information Systems
4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
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.

GEOG H195B Honors Course 1 - 4 Units
Terms offered: Spring 2019, Spring 2018, 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.

GEOG H195A Honors Course 1 - 4 Units
Terms offered: Summer 2019 8 Week Session, Spring 2019, Fall 2018
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.

GEOG 197 Field Study in Geography 1 - 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Supervised experience in application of geography in off-campus organizations. Regular individual meetings with faculty sponsor and written reports required.
GEOG 198 Directed Group Study 1 - 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Directed Group Study: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

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 2019, Fall 2018, Spring 2018
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 without restriction.

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 [-]

GEOG 200A Contemporary Geographic Thought 5 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
The class has several goals. One is to give students a sound basis upon which to judge arguments. A second is to help students see, think, and write geographically—that is, to interpret the making and meaning of our physical and human landscapes. A third goal is to introduce students to the tremendous range of geographical inquiry and what is probably the major strength of geography as a form of thought: to wit, making links across space, among peoples, and between humans and the earth. The fall semester class also serves to introduce students to the practices and expectations of scholarly work more generally, including professionalization, publishing, and public speaking.

Contemporary Geographic Thought: Read More [+]

Rules & Requirements
Prerequisites: Required of all first year graduate students

Hours & Format
Fall and/or spring: 15 weeks - 5 hours of seminar per week

Additional Details
Subject/Course Level: Geography/Graduate

Grading: Letter grade.

Contemporary Geographic Thought: Read Less [-]

GEOG 200B Contemporary Geographic Thought 2 (Geographical Difference and Differentiation) 5 Units
Terms offered: Spring 2019, Spring 2018, Spring 2016
‘Geographical Difference/Differentiation’ is a 5 unit course with Seminar and Workshop components. The Seminar reads canonical work in social theory against contemporary Geography, including metropolitan traditions of critique of capitalism, urbanization, space and time, discipline-biopower-sovereignty, and the now; Southern traditions of agrarian, subaltern and materialist postcolonial studies; Black radical and oceanic traditions that stretch Geography in new ways; and finally, geography as a form of Earth-writing concerned with the unraveling subject, ruined landscapes mixtures of form. The Workshop runs in parallel on particular weeks, focusing on geographic problematization and the research process.

Contemporary Geographic Thought 2 (Geographical Difference and Differentiation): Read More [+]

Rules & Requirements
Prerequisites: Required of all first-year graduate students

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar and 2 hours of workshop per week

Additional Details
Subject/Course Level: Geography/Graduate

Grading: Letter grade.

Contemporary Geographic Thought 2 (Geographical Difference and Differentiation): Read Less [-]
GEOG 203 Nature and Culture: Social Theory, Social Practice, and the Environment 4 Units
Terms offered: Fall 2016, Fall 2011, Fall 2008
The relationship between societies and natural environments lies at the heart of geographical inquiry and has gained urgency as the rate and scale of human transformation of nature have grown, often outstripping our understanding of causes and effects. The physical side of environmental science has received most of the emphasis in university research, but the social basis of environmental change must be studied as well. Recent developments in social theory have much to offer environmental studies, while the latter has, in turn, exploded many formerly safe assumptions about how and what the social sciences and humanities ought to be preoccupied with. This seminar allows students to explore some classics in environmental thought as well as recent contributions that put the field on the forefront of social knowledge today. Nature and Culture: Social Theory, Social Practice, and the Environment: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Sayre
Nature and Culture: Social Theory, Social Practice, and the Environment: Read Less [-]

GEOG 214 Development Theories and Practices 4 Units
Terms offered: Spring 2011, Spring 2010, Spring 2009
This course examines how concepts and theories of "development" have been produced, maintained, used, and challenged in different regions of the world economy. It will offer a framework for analyzing how changing and contending models of development both reflect and shape social processes and practices. Development Theories and Practices: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Hart
Development Theories and Practices: Read Less [-]

GEOG 215 Seminar in Comparative and International Development 4 Units
Terms offered: Spring 2019, Spring 2017, Spring 2015
This seminar is designed for students intending to do research on topics of comparative development, the organization of work, and access to resources in different regions of the world economy. Participants in the seminar will be expected to write a research proposal and to participate actively in reading and responding to each other's work.
Seminar in Comparative and International Development: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructors: Hart, Hsing
Seminar in Comparative and International Development: Read Less [-]

GEOG 220 Capital, Value, and Scale 4 Units
Terms offered: Spring 2013, Spring 2009, Spring 2007
This seminar focuses on major works in political economy and social theory concerning capitalism, human action, and space-time. We grapple with what "value" means in "Capital", paying particular attention to issues of historical specificity, abstract labor time, and the "value theory of labor." We spatialize the argument by a close reading of David Harvey, and we look at attempts to understand capital's relation to human action and other forms of value, in anthropology and the work of Pierre Bourdieu. Finally, we take up the issue of scale in hope of formulating a coherent conceptual framework for integrating across scales, from the human-body (or even smaller scales) up to global, economic, cultural and ecological processes
Capital, Value, and Scale: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Sayre
Capital, Value, and Scale: Read Less [-]
GEOG 221 Speculative World-Building: Games and Simulation 4 Units
Terms offered: Spring 2018
This class will introduce the theory, background, and practice of (analog) gaming, and simulation, or, more generally speculative world-building. These activities are increasingly important in contemporary culture, and also in science, policy, business, planning, and government, in situations where understanding how the world works, how the world might work, or how things might work differently are important. In addition to approaching games as objects of study, students will design new games on topics of their choice, alone or in groups, as a practical component of this class.
Speculative World-Building: Games and Simulation: Read More [+]

Objectives Outcomes

Course Objectives: This class is a revised version of a class called ‘Spatial simulation modeling’ (Geography 228), but replaces computer simulation with board games as a vehicle for exploring how to abstractly represent processes and relations in the world. The aim is to develop an understanding of practices of ‘world-building’, using board games as an accessible point of entry to these practices. To do computer simulation requires learning how to program (‘to code’ as people insist of calling it today), which is a fine ambition but is distinct from the much more fundamental practices of abstraction, quantification, systems analysis, and so forth that underpin building simulation models. Working with board games instead of computational models will helps us get to the heart of those practices a lot more easily without the distraction of learning to program.

Student Learning Outcomes: It is important to note that this is not a game design class; it is not a game theory class; and it is not a cultural studies of games class, although students may learn a little (or even a lot) about all these things, particularly the first. We will look at a lot of games during the semester, as a way to understand games as systems of interacting mechanics, preparatory to student projects which will develop either entirely new games or (probably more likely) develop variants of existing games to align the game’s model of the world more closely with aspects they wish to explore.

Hours & Format

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

Additional Details

Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: OSullivan

Speculative World-Building: Games and Simulation: Read Less [-]

GEOG 228 Spatial Simulation Modeling 4 Units
Terms offered: Spring 2015
Simulation is now a widely adopted approach to science. This class will examine what simulation models are, and why and how they are used. Models that focus on spatial processes (aggregation, segregation, diffusion, movement, growth) will be closely considered. A particular concern will be to explore how simulation models may help elucidate the relationships between processes and the spatial outcomes they produce.

Spatial Simulation Modeling: Read More [+]

Rules & Requirements

Prerequisites: Computer literacy, some programming background may help, but is not required, as all necessary skills will be covered in the class

Hours & Format

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

Additional Details

Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: O'Sullivan

Spatial Simulation Modeling: Read Less [-]

GEOG 230 Economies of Race 4 Units
Terms offered: Not yet offered
This course examines the economy as a domain of social analysis for understanding the black experience. Throughout the course we will examine what forms economic institutions and practices take across the black Diaspora. We will examine the central place of race within capitalist economies, largely overlooked by mainstream economic analyses and unpack its implications for equality in wider capitalist markets, state systems, and policy initiatives. Through historical and ethnographic accounts we will explore how people across the Diaspora cope with crises and inequality, both individually and collectively, and how historical narratives are brought to bear on those methods, and on notions of the future.

Economies of Race: Read More [+]

Hours & Format

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

Additional Details

Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Lewis

Economies of Race: Read Less [-]
GEOG C241 Glaciology 4 Units
Terms offered: Spring 2018, Spring 2017, Spring 2015
A review of the mechanics of glacial systems, including formation of ice masses, glacial flow mechanisms, subglacial hydrology, temperature and heat transport, global flow, and response of ice sheets and glaciers. We will use this knowledge to examine glaciers as geomorphologic agents and as participants in climate change.

Rules & Requirements
Prerequisites: Graduate standing or consent of instructor

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Cuffey
Formerly known as: 241
Also listed as: EPS C242
Glaciology: Read Less [-]

GEOG 244 Complex Environmental Systems 3 Units
Terms offered: Spring 2016, Spring 2014, Spring 2013
Applying a complex-systems approach to environmental problems can yield valuable insight into risk, potential drivers of change, likely outcomes of perturbation, and whether it is even possible to forecast or manage system behavior. This course explores complex-systems theory and applications in geography, ecology, and earth science. Case studies include climate change, coupled human-environmental systems, vegetation community change, river networks, forest fires, earthquakes, and peatlands.

Complex Environmental Systems: Read More [+]

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Larsen

Complex Environmental Systems: Read Less [-]

GEOG C246 Geomorphology of California 4 Units
Terms offered: Fall 2011, Fall 2009, Fall 2006
Numerous tectonic and Earth surface processes act in concert to produce the physical landscapes of our planet. This course examines three major regions of California (the Sierra Nevada, the Basin and Range, and the Southern Coast Ranges) as specific case studies for demonstrating how landscapes can be understood using concepts from tectonics, geomorphology, and geography. Two four-day field trips and preparatory readings for them will illuminate the integrated action of tectonics, geologic structure and lithology, drainage network development, hydraulics, soil production, hillslope transport, fluvial transport, aeolian transport, and glacial/periglacial processes. A term project will be required.

Geomorphology of California: Read More [+]

Rules & Requirements
Prerequisites: Graduate standing in either geography or earth and planetary science and consent of instructor. Undergraduates need consent of instructor and 140A-140B or 140B and Earth and Planetary Science 117

Repeat rules: Course may be repeated for credit without restriction.

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Cuffey

Geomorphology of California: Read Less [-]

GEOG C246 Transboundary Water Conflict Resolution: The Israeli/Arab Case 3 Units
Terms offered: Fall 2018
This course will cover technological, legal, and institutional mechanisms to resolve the water conflict between Israel and its Arab neighbors, emphasizing the agricultural, industrial, environmental and urban sectors that compete over this resource. Students will examine the distribution of available water resources in Israel among different users and sectors as well as between Israel and its neighbors.

Transboundary Water Conflict Resolution: The Israeli/Arab Case: Read More [+]

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Fischhendler

Also listed as: DEVP C246
Transboundary Water Conflict Resolution: The Israeli/Arab Case: Read Less [-]
GEOG 249 Spatiotemporal Data Analysis in the Climate Sciences 3 Units
Terms offered: Fall 2008
This graduate seminar teaches objective techniques for spatiotemporal data analysis focusing primarily on Empirical Orthogonal Function (EOF) analysis and its derivatives. The context will be climate data analysis, but the technique is readily translatable to other fields. The goal is to get the student sufficiently comfortable with the technique so they can use it in their research.

GEOG 250 Seminar in Sociology of Forest and Wildland Resources 3 Units
Terms offered: Fall 2014, Spring 2014, Fall 2013, Fall 2012
Individual projects and group discussions concerning social constraints to, and effects of, natural resource planning and management. Application of sociological theories to problems of managing wildland ecosystems. Students will examine topics of individual interest related to the management of wildland uses. Enrollment limited.

GEOG 251 Topics in Cultural Geography 4 Units
Terms offered: Fall 2017, Spring 2015, Fall 2013
Research seminar on selected topics in cultural geography.

GEOG 252 Topics in Economic Geography 4 Units
Terms offered: Spring 2016, Spring 2015, Fall 2013
Research seminar on selected topics in economic geography.
GEOG 253 Topics in Urban Geography 4 Units
Terms offered: Spring 2014, Fall 2012, Spring 2012
Research seminar on selected topics in urban geography.
Topics in Urban Geography: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructors: Groth, Hsing

Topics in Urban Geography: Read Less [-]

GEOG 254 Topics in GIS 4 Units
Terms offered: Fall 2016
Research seminar on selected topics in GIS.
Topics in GIS: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: O'Sullivan

Topics in GIS: Read Less [-]

GEOG 255 Topics in Political Geography 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2016
Research seminar on selected topics in political geography.
Topics in Political Geography: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructors: Hart, Kosek

Topics in Political Geography: Read Less [-]

GEOG 257 Topics in Climatology 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Research seminar on selected topics in climatology.
Topics in Climatology: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Chiang

Topics in Climatology: Read Less [-]

GEOG 260 Topics in Biogeography 4 Units
Terms offered: Spring 2015, Spring 2013, Fall 2012
Research seminar on selected topics in biogeography.
Topics in Biogeography: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Byrne

Topics in Biogeography: Read Less [-]
GEOG 279 Statistics and Multivariate Data Analysis for Research 3 Units
Terms offered: Fall 2017, Spring 2015
An introduction to advanced statistical methods for research. Topics include hypothesis testing, distribution fitting, ANOVA and MANOVA, PCA, cluster analysis, ordination, discriminant analysis, regression, time series analyses, causality, and data mining techniques. Students will complete assignments that use real datasets and will gain feedback in working with their own datasets.

Statistics and Multivariate Data Analysis for Research: Read More [+]

Rules & Requirements
Prerequisites: Basic probability/statistics; familiarity with MATLAB or other programming is helpful but not required

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Larsen

GEOG 280 Advanced Field Study in Geography 3 - 7 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
All day Saturday. Each additional unit requires four hours of field work per week. Extended field project required.

Advanced Field Study in Geography: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1 hour of lecture and 11 hours of fieldwork per week

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.

Advanced Field Study in Geography: Read Less [-]

GEOG 282 Geographic Information Systems: Applications in Geographical Research 4 Units
Terms offered: Spring 2009
This course introduces graduate students to a range of applications of Geographic Information Systems (GIS) in geographical research, and theoretical considerations of the meaning, strengths, and limitations of the methods. We first review, in general, how geographic variables can be represented in a database. This leads to an extended discussion of the application of GIS methods to a variety of problems in physical and human geography, using topographic data, census data, and other sources, manipulated by widely used GIS software. Students build skills and understanding through work on example problems. Finally, the broad question of how GIS represents geographic variables, and the strengths and limitations of the technique, are re-visited using perspective gained from examples. Students will be expected to elaborate these issues in the context of their own research programs.

Geographic Information Systems: Applications in Geographical Research: Read More [+]

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/Graduate
Grading: Letter grade.

Geographic Information Systems: Applications in Geographical Research: Read Less [-]
GEOG 285 Topics in Earth System Remote Sensing 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2016
Questions asked about a changing planet are strongly influenced by data collected across a variety of spatial and temporal scales. Remote sensing of globally distributed ecosystems and human landscapes enables the exploration of questions not possible without the extension of those dimensions. This course will focus on developing scalable Earth system research questions using a variety of tools including advanced remote sensing methods, image acquisition including UAV systems, data synthesis and analytical approaches, literature review, progress reporting, and student presentations.

Topics in Earth System Remote Sensing: Read More [+]

Objectives Outcomes

Course Objectives: To develop a better understanding of what questions can be approached across a range of geographical dimensions, and further develop the student’s toolbox for exploring those questions and presenting results.

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Instructor: Chambers

Topics in Earth System Remote Sensing: Read Less [-]

GEOG 295 Geography Colloquium 1 Unit
Terms offered: Spring 2019, Fall 2018, Spring 2018
Invited lectures on current research and field work.

Geography Colloquium: Read More [+]

Rules & Requirements
Prerequisites: Required of all graduate students not yet advanced to candidacy
Repeat rules: Course may be repeated for credit without restriction.

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

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Geography Colloquium: Read Less [-]

GEOG 296 Directed Dissertation Research 1 - 12 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018

Directed Dissertation Research: Read More [+]

Rules & Requirements
Prerequisites: Advancement to Ph.D. candidacy
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

Directed Dissertation Research: Read Less [-]

GEOG N296 Directed Dissertation Research 1 - 4 Units
Terms offered: Summer 2019 10 Week Session, Summer 2019 8 Week Session, Summer 2019 Second 6 Week Session

Directed Dissertation Research: Read More [+]

Rules & Requirements
Prerequisites: Advancement to Ph.D. candidacy
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Summer:
6 weeks - 1-4 hours of independent study per week
8 weeks - 1-4 hours of independent study per week
10 weeks - 1-4 hours of independent study per week

Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.

Directed Dissertation Research: Read Less [-]
GEOG 297 Directed Field Studies 1 - 6 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Directed Field Studies: Read More [+]
Rules & Requirements
Prerequisites: Open to students directly engaged in field studies
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-6 hours of fieldwork per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Directed Field Studies: Read Less [-]

GEOG 298 Directed Study for Graduate Students 1 - 6 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Special tutorial or seminar on selected topics not covered by available courses or seminars.
Directed Study for Graduate Students: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: The grading option will be decided by the instructor when the class is offered.
Directed Study for Graduate Students: Read Less [-]

GEOG 299 Individual Research 1 - 8 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Individual research for graduate students in consultation with staff member.
Individual Research: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Individual Research: Read Less [-]

GEOG N299 Individual Research 1 - 4 Units
Terms offered: Summer 2019 First 6 Week Session, Summer 2018 First 6 Week Session, Summer 2006 10 Week Session
Individual research for graduate students in consultation with staff member.
Individual Research: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Summer:
6 weeks - 1-4 hours of independent study per week
8 weeks - 1-4 hours of independent study per week
Additional Details
Subject/Course Level: Geography/Graduate
Grading: Letter grade.
Individual Research: Read Less [-]

GEOG 301 Professional Training: Teaching Practice 1 - 4 Units
Terms offered: Spring 2019, Spring 2018, Fall 2017
Professional Training: Teaching Practice: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Geography/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Professional Training: Teaching Practice: Read Less [-]
GEOG C301 Communicating Ocean Science 4 Units
For graduate students 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.

Communicating Ocean Science: Read More [+]
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/Professional course for teachers or prospective teachers
Grading: Letter grade.
Instructor: Ingram
Also listed as: EPS C301/INTEGBI C215
Communicating Ocean Science: Read Less [-]

GEOG C302 Effective Scientific Communication 3 Units
Terms offered: Fall 2009, Fall 2007
This course will introduce methods of organizing and delivering oral presentations, initiating and organizing manuscripts, and utilizing digital communication methods, such as web-based media. Students will develop effective communication techniques through in-class experience. This class will have an emphasis on the sciences but will be useful and open to graduate students of all disciplines.

Effective Scientific Communication: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Geography/Professional course for teachers or prospective teachers
Grading: Letter grade.
Instructors: Resh, Rhew
Also listed as: ESPM C302
Effective Scientific Communication: Read Less [-]

GEOG 601 Individual Study for Master's Students 1 - 6 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Individual study for comprehensive or language requirements in consultation with the field adviser.

Individual Study for Master's Students: Read More [+]
Rules & Requirements
Prerequisites: For candidates for master's degree
Credit Restrictions: Course does not satisfy unit or residence requirements for master's degree.
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details
Subject/Course Level: Geography/Graduate examination preparation
Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Master's Students: Read Less [-]

GEOG N601 Individual Study for Master's Students 1 - 3 Units
Terms offered: Summer 2009 10 Week Session
Individual study for comprehensive or language requirements in consultation with the field adviser.

Individual Study for Master's Students: Read More [+]
Rules & Requirements
Prerequisites: For candidates for master's degree
Credit Restrictions: Course does not satisfy unit or residence requirements for master's degree.
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Summer:
6 weeks - 2.5-7.5 hours of independent study per week
8 weeks - 1.5-5.5 hours of independent study per week

Additional Details
Subject/Course Level: Geography/Graduate examination preparation
Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Master's Students: Read Less [-]
GEOG 602 Individual Study for Doctoral Students 1 - 6 Units

Terms offered: Spring 2019, Fall 2018, Spring 2018
Individual study in consultation with the major field adviser, intended to provide an opportunity for qualified students to prepare themselves for the various examinations required of candidates for the Ph.D.

Rules & Requirements

Prerequisites: For candidates for Ph.D

Credit Restrictions: Course does not satisfy unit or residence requirements for doctoral degree.

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Geography/Graduate examination preparation

Grading: Offered for satisfactory/unsatisfactory grade only.