Introduction to Metereology credit: 3 Hours.

Same as ATMS 100. See ATMS 100.

This course satisfies the General Education Criteria for:
Nat Sci Tech - Phys Sciences

Global Development & Environment credit: 3 Hours.

Investigates the origins of the global South in relation to the global North, especially the historical and contemporary processes driving environmental, economic, and cultural change.

This course satisfies the General Education Criteria for:
Cultural Studies - Non-West
Social Beh Sci - Soc Sci

Earth's Physical Systems credit: 4 Hours.

A basic introduction to the environmental systems of the Earth's surface, including landforms, soils, and ecosystems and how these systems are affected by global change. Emphasizes the importance of human-Earth relations and a holistic view of environmental systems. Same as ESE 103.

This course satisfies the General Education Criteria for:
Nat Sci Tech - Phys Sciences

Social and Cultural Geography credit: 4 Hours.

Introduces the basic concepts of social and cultural geography, and the application of these concepts to a variety of topics; mental maps, territoriality, cultural regions, cultural elements and their diffusion, population movement and migration, settlement patterns, environmental hazards, and spatial patterns of social problems.

This course satisfies the General Education Criteria for:
Social Beh Sci - Soc Sci

The Digital Earth credit: 3 Hours.

Geospatial technologies such as global positioning systems (GPS) and geographic information systems (GIS) are becoming increasingly important tools in research and policy arenas and in everyday life. This course will provide an introduction to these emerging technologies and to the principles of mapping science that underpin them. At the same time, the course will explore how these innovative technologies are changing the spaces and places around us, including how we interact with the environment and each other. Lab exercises provide hands-on experience in collecting and mapping geospatial information, interpreting digital imagery and the Earth's environments, and critically thinking about the social implications of the digital Earth.

This course satisfies the General Education Criteria for:
Social Beh Sci - Soc Sci

Geographies of Globalization credit: 3 Hours.

A survey of major world regions by systematically considering five themes: environment, population and settlement patterns, cultural coherence and diversity, geopolitical fragmentation and unity, and economic and social development. While examining the persistence of unique regions, the course will both scale up to global linkages and scale down to place-specific impacts of globalization processes. Same as ESE 106.

This course satisfies the General Education Criteria for:
Cultural Studies - Non-West
Social Beh Sci - Soc Sci

Cities of the World credit: 3 Hours.

In-depth exploration of global urbanization. Using a comparative regional approach, discuss the recent history of global urbanization, dissect its problems, and offer possible solutions. Approximately ten major regions of the world will be examined, exploring the significant urban patterns and processes, built and natural environments, and social, economic, and cultural landscapes of each.

This course satisfies the General Education Criteria for:
Social Beh Sci - Soc Sci
Cultural Studies - Western

Business Location Decisions credit: 3 Hours.

Analyzes location decision-making emphasizing industrial and commercial location patterns; identifies important institutional factors and their changing roles over the recent past; and focuses on plant closings, economic disruptions, and problems of structural change. Same as BADM 205. Prerequisite: ECON 102 or ECON 103, or equivalent.

Social & Environmental Issues credit: 3 Hours.

Introduction to the complex relationship between people and the natural environment from a social science perspective. Explores different approaches to environmental issues, and examines the role of population change, political economy, technologies, environmental policymaking, and social institutions in causing and resolving contemporary social and environmental global issues. Same as ESE 210.

This course satisfies the General Education Criteria for:
Social Beh Sci - Soc Sci

Geographies of Global Conflict credit: 3 Hours.

Focuses on contemporary cultural conflicts, competition among nations for economic and mineral resources; treats territorial disputes from a cultural and geographic perspective. Case studies vary to illustrate types of contemporary conflicts. Same as GLBL 221. Credit is not given for GEOG 221 and GEOG 110.

This course satisfies the General Education Criteria for:
Social Beh Sci - Soc Sci
GEOG 222  Big Rivers of the World  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/222](https://courses.illinois.edu/schedule/terms/GEOG/222))
An interdisciplinary approach to the study of big rivers, encompassing geomorphology, engineering, ecology, risk assessment and planning. Commencing with an assessment of the nature of big rivers; their hydrology and geomorphic setting; hazards associated with large rivers, and issues of river impoundment and management, then proceed to examine the geography, geomorphology, and ecology and management of a range of the World’s greatest rivers, focusing on how a geomorphological understanding of such large rivers can aid study of riverine ecocultivates and inform decisions regarding water usage and engineering management. If the weather permits, a one day field-trip will be organized in the second half of the course to view aspects of a local river in Illinois/Indiana. Same as ESE 222.

GEOG 224  Geog Patterns of Illinois  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/224](https://courses.illinois.edu/schedule/terms/GEOG/224))
Systematic analysis of the environmental and human processes that have shaped the regional landscapes of rural and urban Illinois. This course satisfies the General Education Criteria for: Social Beh Sci - Soc Sci

GEOG 254  American People, Places, & Environments  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/254](https://courses.illinois.edu/schedule/terms/GEOG/254))
Students will broaden their understanding of how the United States’ physical and human geography interact to produce unique cultural landscapes. Covers a dozen different regions of the U.S., exploring the significant spatial patterns and processes, built and natural environments, and social, economic, and cultural landscapes of each. Focuses on the experiences of minority cultures in the U.S. through specific themes that vary by semester, including: environmental justice, memory and memorials, music, and food. Same as ESE 254. This course satisfies the General Education Criteria for: Social Beh Sci - Soc Sci

GEOG 280  Intro to Social Statistics  credit: 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/280](https://courses.illinois.edu/schedule/terms/GEOG/280))
Same as SOC 280. See SOC 280. This course satisfies the General Education Criteria for: Quantitative Reasoning I

GEOG 287  Environment and Society  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/287](https://courses.illinois.edu/schedule/terms/GEOG/287))
Same as ESE 287, NRES 287 and PS 273. See NRES 287. This course satisfies the General Education Criteria for: Social Beh Sci - Soc Sci

GEOG 288  Sustainability and the City  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/288](https://courses.illinois.edu/schedule/terms/GEOG/288))
Examination of the tools, techniques, strategies, and rationales that can be used by urbanists to produce and sustain a productive, fair, and equitable city. Emphasis is placed on diagnosing, implementing, and sustaining an ideal U.S. city as a complex whole that embeds an array of interconnecting parts (neighborhoods, retail districts, downtowns, city economies). Lectures and discussion cover the broad background of theories, concepts, and principles that will be essential for imagining and implementing these ideals, strategies and plans.) Same as ESE 350.

GEOG 356  Sustainable Development in South Asia  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/356](https://courses.illinois.edu/schedule/terms/GEOG/356))
Examination of sustainable development in the region of South Asia (India, Nepal, Pakistan, Afghanistan, Bangladesh, Sri Lanka). Geographic analysis of development processes since the colonial period, with particular emphasis on the interrelated processes of environment, society, and politics as related to sustainability. Prerequisite: Sophomore standing or consent of instructor.

GEOG 370  Water Planet, Water Crisis  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/370](https://courses.illinois.edu/schedule/terms/GEOG/370))
Same as ESE 320 and GEOL 370. See ESE 320.

GEOG 371  Spatial Analysis  credit: 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/371](https://courses.illinois.edu/schedule/terms/GEOG/371))
Overview of the spatial analysis (nomothetic) approach to geographic research, both physical and human; includes discussion of the scientific method, with explanations and uses of analytic geographic concepts in studying real world problems. Prerequisite: A course in geography. This course satisfies the General Education Criteria for: Quantitative Reasoning II

GEOG 379  Intro to GIS Systems  credit: 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/379](https://courses.illinois.edu/schedule/terms/GEOG/379))
Study of the analytical capabilities of geographic information science as well as the basic skills in the execution of that theoretical knowledge with industry standard software packages. Student will learn the basics of projections and coordinate systems, how geographic information is stored and manipulated, and the theory and practice behind the production of thematic maps. Includes lecture and hands-on laboratory components. Same as ESE 379.

GEOG 380  GIS II: Spatial Prob Solving  credit: 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/380](https://courses.illinois.edu/schedule/terms/GEOG/380))
Study of the analytical capabilities of geographic information systems with an emphasis on learning to solve spatial problems in both the vector and raster data formats. Students will develop the skills necessary to answer questions or solve problems in their areas of interest, with particular emphasis on problems and questions that require multiple steps to resolve. Students will learn the fundamental theory behind spatial problem solving, but also learn to execute these procedures with industry-standard software packages. Thus, this class contains both lecture/discussion elements and hands-on laboratory work. Same as ESE 380. Prerequisite: GEOG 379
This course satisfies the General Education Criteria for: Quantitative Reasoning II

GEOG 384  Population Geography  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/GEOG/384](https://courses.illinois.edu/schedule/terms/GEOG/384))
Problems and issues surrounding the geographic distribution of populations at the world, regional, and local levels; emphasizes problems associated with population growth and decline, recent population redistribution, births and deaths, and elderly and minority populations.

GEOG 390  Individual Study  credit: 2 to 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/390](https://courses.illinois.edu/schedule/terms/GEOG/390))
Supervised independent study of special topics or regions. May be repeated once. Prerequisite: Junior standing; at least one formal course in the topic or region of interest; consent of instructor.

GEOG 391  Honors Individual Study  credit: 2 to 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/391](https://courses.illinois.edu/schedule/terms/GEOG/391))
Individual study and research projects for students who are working toward the degree with distinction in geography. May be repeated to a maximum of 8 hours. Prerequisite: Junior standing; consent of honors adviser.
GEOG 392  Geography & GIS Internship  credit: 0 to 3 Hours.  
Supervised, off-campus experience in a field directly pertaining to
Geography and/or GIS. A written report is required at the end of the
internship relating work accomplishments to the student's program of
study. Approved for Letter and S/U grading. May be repeated in separate
terms up to 6 hours. Prerequisite: Consent of faculty sponsor and Director
of Undergraduate Studies; at least two courses taken within Geography &
GIS.
GEOG 401  Watershed Hydrology  credit: 3 Hours.  
Same as NRES 401. See NRES 401.
GEOG 405  Geography Field Course  credit: 1 to 4 Hours.  
Field observation and mapping of human and/or physical phenomena
using basic geographic field techniques, including pre- and post-trip
meetings. Required field trip. Additional fees may apply. See Class
Schedule. 1 to 4 undergraduate hours. 1 to 4 graduate hours. May be
repeated if topics vary. Prerequisite: Major or minor in Geography & GIS,
or consent of instructor.
GEOG 406  Fluvial Geomorphology  credit: 4 Hours.  
Systematic overview of the forms and processes associated with rivers
and drainage basins; topics include basin hydrology, drainage networks,
river hydraulics, sediment transport processes, channel morphology,
channel change, and human impacts on fluvial systems. Same as
GEOL 406, and NRES 406. 4 undergraduate hours. 4 graduate hours.
Prerequisite: PHYS 101, and GEOG 103 or GEOL 107, or consent of
instructor.
GEOG 408  Humans and River Systems  credit: 4 Hours.  
Systematic analysis of the biophysical processes operating in rivers
and watersheds and the interaction of humans on these processes.
The course will emphasize the importance of biophysical processes
and human interaction with these processes in river and watershed
management. Class discussion and a class project will focus on analysis
of practical river and watershed problems. 4 undergraduate hours. 4
graduate hours. Prerequisite: GEOG 103 or an introductory course in earth
or environmental science.
GEOG 410  Green Development  credit: 4 Hours.  
Theory and practice of sustainable development. Course materials
draw upon theoretical and case study material from the social and
natural sciences to analyze environment and development relations with
emphasis on the Global South. Same as ESE 410. 4 undergraduate hours.
4 graduate hours.
GEOG 412  Geospatial Tech & Society  credit: 3 Hours.  
Examines the use of geographic information systems (GIS), geographical
positioning systems (GPS), and other geospatial technologies in everyday
life with emphasis on their implications for social, economic, and
environmental change. Topics include critical cartography, GIS, and social
theory, crime and health, environmental justice, feminism, economic
development and environmental change. 3 undergraduate hours. 3
graduate hours. Prerequisite: GEOG 105 or consent of instructor.
GEOG 421  Earth Systems Modeling  credit: 4 Hours.  
Same as ATMS 421, ESE 421, GEOL 481 and NRES 422. See ATMS 421.
GEOG 423  Politics of International Conservation and Development credit: 3 Hours.  
Same as NRES 423. See NRES 423.
GEOG 436  Biogeography  credit: 3 Hours.  
Same as ANTH 436, ESE 439, IB 439 and NRES 441. See IB 439.
GEOG 438  Geography of Health Care  credit: 3 or 4 Hours.  
Methods and perspectives of health care. Emphasizing the spatial
analysis of health and health care. The organization, provision and
competition of health care will be highlighted. Same as SOC 478. 3
undergraduate hours. 4 graduate hours. Prerequisite: GEOG 384 or
SOC 274 or consent of instructor.
GEOG 439  Health Applications of GIS  credit: 3 Hours.  
Same as CHLH 439 and PATH 439. See PATH 439.
GEOG 440  Business Applications of GIS  credit: 3 or 4 Hours.  
Design and implementation of GIS for business and strategic planning
applications. Course goals include: (1) provide students with an
understanding of Geographic Information Systems; (2) provide students
with an understanding of how GIS can be applied in various business
applications; (3) familiarize students with GIS and modeling techniques;
(4) provide students with opportunities to work with various data sources
through a project related to their own interest in business. Same as
BADM 440. 3 undergraduate hours. 4 graduate hours.
GEOG 444  Sustainable Planning Seminar  credit: 4 Hours.  
Same as LA 446, NRES 446, and UP 446. See LA 446.
GEOG 455  Geog of Sub-Saharn Africa  credit: 3 Hours.  
Regional geography of Africa south of the Sahara. Geographic analysis of
Africa which includes topics in both physical and human geography and
provides a general overview of the processes and interactions between
human and environmental factors that shape Africa's physical and
human geography. 3 undergraduate hours. 3 graduate hours.
GEOG 459  Ecohydraulics  credit: 4 Hours.  
Interactions between hydraulic, ecological, and geomorphic processes
in river environments at a wide range of both spatial and temporal
scales. Draws upon and synthesize fundamental concepts from biology,
ecology, fluid mechanics and morphodynamics, to apply them to truly
interdisciplinary problems. Such an approach, coupled with hands-on
experience involving planning, conducting and analyzing hands-on
experiments at the Ven Te Chow Hydrosystems Laboratory and field
surveys on local natural waters will provide the students with a broad
perspective on the interconnections between physical and ecological
systems. Students will apply their knowledge of fundamental processes
to assess complex problems involving monitoring, management,
conservation and restoration of ecosystems. 4 undergraduate hours. 4
graduate hours.
GEOG 460  Aerial Photo Analysis  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/460)
Review of methods for extracting quantitative and qualitative information from aerial photographs using computer-based techniques and visual interpretation. The first part of the course will cover basic photogrammetry and mapping. The second part will focus on interpretation of physical, biological, and cultural features. Same as NRES 460. 3 undergraduate hours. 4 graduate hours. Prerequisite: Knowledge of trigonometry (MATH 014 or equivalent) and basic physical geography (GEOG 103 or equivalent).

GEOG 465  Transportation & Sustainability  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/465)
Descriptors of transportation systems; transportation as an industrial activity and public good; and transportation and spatial development, including the role of transportation in urban and regional development. Emphasis on the economic, environmental, and social aspects of sustainability as they apply to transportation systems and the activities they enable at local, regional, national and global levels. Field trip required. Same as ESE 465. Additional fees may apply. See Class Schedule. 3 undergraduate hours. 4 graduate hours. This course satisfies the General Education Criteria for: Advanced Composition

GEOG 466  Environmental Policy  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/466)
Examination of the geographical and political aspects of human-environmental relations; focusing on how environmental problems are defined, negotiated, and addressed through policy formulation. Specific approaches to environmental policy will be considered at different geographical scales. Same as ESE 466. 3 undergraduate hours. 4 graduate hours. Prerequisite: One course in Geography or Political Science or consent of instructor.

GEOG 468  Biological Modeling  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/468)
Interdisciplinary modeling course for students interested in dynamic system modeling of living processes; each student will build a model by the end of the course. No special mathematical background required. Same as ANSC 449, CPSC 448, and IB 491. 3 undergraduate hours. 4 graduate hours. Prerequisite: IB 444 or equivalent, depending on curriculum.

GEOG 471  Recent Trends in Geog Thought  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/471)
Examination of recent trends in human and physical geography. Themes include empiricism, logical positivism, regionalism, Marxism, realism, phenomenology, and post-modernism as applied to geographic research. Emerging geographic literature is explored to identify the latest conceptual developments. 4 undergraduate hours. 4 graduate hours.

GEOG 473  Digital Cartography & Map Design  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/473)
Instruction and practice in the basic techniques of map making followed by a consideration of problems involved in the construction of maps for presentation in a reproduced form (i.e., printed, photographed); the selection of proper source materials for the base and body of the map, the compilation and correlation of these materials, and methods of mechanical and photographic reproduction. 4 undergraduate hours. 4 graduate hours.

GEOG 476  Applied GIS to Environ Studies  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/476)
Demonstrates how geographic information systems (GIS) have become a major technology ubiquitously applied to solve important problems encountered in geospatial and environmental applications. 3 undergraduate hours. 3 graduate hours. Prerequisite: GEOG 103 or GEOG 104, consent of instructor.

GEOG 477  Introduction to Remote Sensing  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/477)
Fundamentals of energy-matter interaction mechanisms, and the manifestation of reflected and emitted radiation on photographs and images; introduces characteristics of aerial films and filters, electro-optical scanners, and digital processing; and emphasizes applications in environmental problems. Same as NRES 477. 3 undergraduate hours. 3 graduate hours. Prerequisite: GEOG 280 (beginning statistics) or equivalent, or consent of instructor.

GEOG 478  Techniques of Remote Sensing  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/478)
Optical and digital information processing of imagery acquired from aircraft and satellite remote sensing platforms; includes systems design, mensuration theory, photographic enhancement techniques, and automatic digital classification for all of the standard sensor systems; and laboratory focusing on the design and implementation of information processing techniques with application limited to a survey of uses. 4 undergraduate hours. 4 graduate hours. Prerequisite: GEOG 477 or equivalent.

GEOG 479  Advanced Topics in GIS  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/479)
Introduces advanced concepts in Geographic Information Science. Course topics may vary. 3 undergraduate hours. 3 graduate hours. May be repeated, if topics vary, in separate terms to a maximum of 9 hours, but not more than 6 hours in any one term. Prerequisite: GEOG 379 or equivalent.

GEOG 480  Principles of GIS  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/480)
Focuses on Geographic Information Science (GIScience) principles that underlie the development of Geographic Information Systems (GIS) software and its intelligent use. Helps students adapt to rapidly changing geospatial technologies. Knowledge gained in this course will be general and, thus, not be limited to any specific software product that may be revised in the future. 3 undergraduate hours. 3 graduate hours. Prerequisite: GEOG 379 and GEOG 380 or equivalent, or consent of instructor.

GEOG 482  Challenges of Sustainability  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/482)
Same as ESE 482 and GEOL 483. See ESE 482.

GEOG 483  Urban Geography  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/GEOG/483)
Broad background of theories, concepts, and methods of research for understanding how and why our cities have reached their current status. Focus on examining the internal structure of the North American city, including analysis of the commercial, industrial, and residential sectors of the urban environment. Particular emphasis is placed on the range of urban theories developed to explain both urban structure and contemporary urban ills. 3 undergraduate hours. 3 graduate hours.
**GEOG 484 Cities, Crime, and Space**  
credit: 3 or 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/484](https://courses.illinois.edu/schedule/terms/GEOG/484))

Focusing on US cities, this theory-intensive course surveys traditional and critical perspectives on relations between crime, space, and place. We will explore this interplay within broader contexts of industrial and post-industrial urbanization, concentrating on dynamics including governances, economic processes, and social transformations. Emphasis will be placed on the extent to which these interwoven processes generate, classify, organize, and react to crime across citiescapes. 3 undergraduate hours. 4 graduate hours.

**GEOG 489 Programming for GIS**  
credit: 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/489](https://courses.illinois.edu/schedule/terms/GEOG/489))

Introduction to programming to customize and extend the capabilities of geographic information systems. Topics include the principles of programming, advanced function and tools coding, visualization, fundamental spatial data structures, and spatial algorithms. 4 undergraduate hours. 4 graduate hours. Prerequisite: GEOG 379 and GEOG 380 or equivalents, or consent of instructor.

**GEOG 491 Research in Geography**  
credit: 2 Hours. ([courses.illinois.edu/schedule/terms/GEOG/491](https://courses.illinois.edu/schedule/terms/GEOG/491))

Detailed examination and discussion of the methods of initiating and executing research projects in human or physical geography (taught in separate sections); requires students to write a research proposal of a quality suitable for a graduate thesis. 2 undergraduate hours. 2 graduate hours. Prerequisite: GEOG 471; either graduate standing in geography or senior standing as a geography major and consent of department.

**GEOG 495 Advanced Topics in Geography**  
credit: 3 or 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/495](https://courses.illinois.edu/schedule/terms/GEOG/495))

Explores special topics not covered in regularly scheduled Geography courses. 3 or 4 undergraduate hours. 3 or 4 graduate hours. May be repeated if topics vary in the same term to a maximum of 9 undergraduate hours or 12 graduate hours or in separate terms to a maximum of 12 undergraduate hours or 12 graduate hours.

**GEOG 496 Climate & Social Vulnerability**  
credit: 3 or 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/496](https://courses.illinois.edu/schedule/terms/GEOG/496))

Existing climate variability and likely climate change call for policies to protect vulnerable people who make their livelihoods in a changing environment. Students will explore: 1) causes of climate related stress and disaster; 2) theories of vulnerability and adaptation; 3) practices and policies designed to reduce economic loss, hunger, famine and dislocation in the face of climate trends and events. Focus on multiple policy scales affecting poor and marginal populations, who are disproportionately vulnerable when facing climate stress, drawing on case examples primarily from the developing world. Same as ATM 446 and SOC 451. 3 undergraduate hours. 4 graduate hours. Prerequisite: GEOG 410, GEOG 466, GEOG 471, GEOG 520, or consent of instructor.

**GEOG 520 Political Ecology**  
credit: 4 Hours. ([courses.illinois.edu/schedule/terms/GEOG/520](https://courses.illinois.edu/schedule/terms/GEOG/520))

Political ecology integrates social and biophysical processes in the study of nature-society relations. Examination of the conceptual origins of the field of political ecology and identification of influential bodies of research and promising research directions. Readings focus on recent advances, debates, and the ongoing evolution of political ecology as an integrative approach to Geography and environment-development studies. 4 graduate hours. No professional credit. Prerequisite: One of the following courses, or consent of the instructor: GEOG 410, GEOG 466, SOC 447, HIST 460, or equivalent.