GEography

The Department offers both a Bachelor of Arts and a Bachelor of Science in Geography. We also offer concentrations in Geographic Information Systems and Travel & Tourism, and a Minor in Geography. The geography program at UNO prepares students for careers in urban and environmental planning, geographic information systems, cartography, remote sensing, and other areas of geographic research.

Other Information

All coursework taken for the Geography major or minor must be completed with a grade of “C-” or better.

Note for students double majoring in both A&S Geography and Environmental Science-Geography and Planning:

All geography courses may count toward both majors.

Double-counting rule for Geograpy majors with a Geology minor:

Only one course at the upper level may be counted as credit for both the Geography major and Geology minor. All other upper level courses can only count in either the major or minor.

Geography may also be studied through the College of Public Affairs and Community Service in the Division of Continuing Studies. Students interested in this degree program must meet with an adviser in the Division of Continuing Studies. The major consists of a minimum of 30 credit hours in geography, details of which are at http://www.unomaha.edu/dcs/concentrations/geography.php.

Student Groups

University of Nebraska Omaha Geography Club

Contact

DSC 260
402-554-2662

Website (https://www.unomaha.edu/college-of-arts-and-sciences/geography)

Writing in the Discipline

All students are required to take a writing in the discipline course within their major. For the geography major, students may choose from the following: ENGL 2400, ENGL 3050, or ENGL 3980.

Degrees Offered

• Geography, Bachelor of Arts (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/geography/geography-ba)
• Geography, Bachelor of Science (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/geography/geography-bs)

Geography is offered as a Bachelor of Arts in geography or a Bachelor of Science in geography. Students who wish more concentrated applications in geography may choose an optional concentration of either geographic information systems or travel and tourism. The specific course requirements for these concentrations may also be used to satisfy the major requirements.

The geography major requires a minimum of 29 credit hours of geography at the 3000 level or higher. All 3000 level or higher courses taken in the Geography Fundamentals and Geography Diversity Requirements count toward this requirement.

For the B.A. degree: Foreign language is required through the intermediate level.

For the B.S. degree: In lieu of foreign language, a 15 credit hour cognate is required, consisting of 6 credit hours of approved computer science coursework and an additional 9 credit hours of coursework complementary to the major and chosen in consultation with a departmental adviser.

Minors Offered

• Geography Minor (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/geography/geography-minor)

GEG 1000 FUNDAMENTALS OF WORLD REGIONAL GEOGRAPHY (3 credits)

An introductory course designed to acquaint students with the basic concepts of geography and to examine the interrelationships between people and their environments.

Distribution: Social Science General Education course and Global Diversity General Education course

GEOG 1020 INTRODUCTION TO HUMAN GEOGRAPHY (3 credits)

An introductory course which studies the geography of human activity through a topic by topic coverage of cultural traits and complexes that characterize different societies in the world. Major cultural topics of focus are the geography of population, agricultural systems, settlement, language, religion, political patterns, and man’s ways of occupying urban and industrial space, among others.

Distribution: Social Science General Education course and Global Diversity General Education course

GEOG 1030 INTRODUCTION TO PHYSICAL GEOGRAPHY (4 credits)

This course is designed to acquaint the student with those processes active in shaping the surface of the earth and their relationship to one another. Includes the study of the atmosphere, river systems and hydrology, glaciers, climate, plate tectonics and landforms. Includes weekly laboratory sessions. One half-day field trip is included.

Distribution: Natural/Physical Sci General Education lecture&lab

GEOG 1050 HUMAN-ENVIRONMENT GEOGRAPHY (4 credits)

Learn about how sustainability and quality of life depend on human interactions with environmental phenomena such as Climate, Drought, Energy, Water, and Biodiversity. These interactions influence patterns of Urbanization, Technology, Consumption, and Agriculture that can improve or degrade quality of life and sustainability. Lecture emphasizes concepts for understanding and explaining human-environment interaction. Labs focus on fundamentals of physical earth science and how these offer possibilities for sustainable development.

Distribution: Natural/Physical Sci General Education lecture&lab

GEG 1090 INTRODUCTION TO GEOSPATIAL SCIENCES (4 credits)

An introductory lecture/lab that has students learn and apply the principles of geospatial science within the frameworks of Geographic Information Science (GISc), Remote Sensing, Aerial Photography, Photogrammetry, Global Positioning Systems and Cartography/Visualization. The course focuses on the underlying scientific basis that is shared across all of these frameworks. Students will produce both maps and spatial analysis by the end of the course using all of the above frameworks.

Prerequisite(s)/Corequisite(s): Not open to non-degree graduate students.

Distribution: Natural/Physical Sci General Education lecture&lab

GEG 2500 SPECIAL TOPICS IN GEOGRAPHY-GEOLGY (1 credit)

This course will provide for an in-depth study of a geographical or geological subject (as specified in the course subtitle). Various classes will be offered as sections of GEOG/GEOL 2500, but will be separate from one another. Students may repeat GEOG/GEOL 2500 as often as they like as long as no specific subject is duplicated.

Prerequisite(s)/Corequisite(s): Variable.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GEOG 2620</td>
<td>AERIAL PHOTOGRAPHIC INTERPRETATION (3 credits)</td>
<td></td>
<td>A practical application of various types of air photographs to the interpretation and analysis of both physical and cultural landscapes. Provides a fundamental tool for those interested in geography, geology, ecology and the environment. Recommended: Three hours in geography or geology.</td>
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<tr>
<td>GEOG 3000</td>
<td>TRAVEL STUDY IN GEOGRAPHY (3 credits)</td>
<td></td>
<td>The course examines the development of travel as a human endeavor and the process of planning a trip to a foreign country. A major objective of the course is the use and evaluation of Internet travel resources. This is accomplished by searching for relevant sources and assembling this material for presentation to others through the Internet. Prerequisite(s)/Corequisite(s): An introductory course in geography is highly recommended along with a basic knowledge of online tools available through the Internet.</td>
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<tr>
<td>GEOG 3030</td>
<td>GEOGRAPHY OF AFRICA (3 credits)</td>
<td></td>
<td>The political, physical, economic and demographic features of Africa with emphasis on the effect of these factors in development. The major features of the broad geographical regions of Africa. Prerequisite(s)/Corequisite(s): Junior</td>
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<tr>
<td>GEOG 3050</td>
<td>GEOGRAPHY IN FILM (3 credits)</td>
<td></td>
<td>Our views of the world are largely shaped by images that we see through popular media. This course examines contemporary films from around the world and how they depict places, the environment, and the lives of people. Critical and constructive examination of film will enable students to understand how images produce powerful ideological messages and how they shape the representation of entire cultures and people. Prerequisite(s)/Corequisite(s): Junior standing. Introductory courses in regional, human, physical geography are highly recommended.</td>
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<tr>
<td>GEOG 3060</td>
<td>GEOGRAPHY OF MIDDLE AMERICA (3 credits)</td>
<td></td>
<td>A survey of the physical and cultural landscapes of the Caribbean, Mexico, and Central America. Attention is directed toward the impact of old world culture upon that of the new world, development of plantation economies, settlement of the frontier regions and the evolution of middle America as it exists today. Prerequisite(s)/Corequisite(s): Junior</td>
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<tr>
<td>GEOG 3070</td>
<td>GEOGRAPHY OF LATIN AMERICA (3 credits)</td>
<td></td>
<td>This course surveys the physical and human environments of Latin America. Emphasis is placed upon the persistence of cultural factors in the use of land and on the difficulty in developing the various areas of Latin America. Prerequisite(s)/Corequisite(s): Junior</td>
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<tr>
<td>GEOG 3080</td>
<td>EAST &amp; SOUTHEAST ASIA (3 credits)</td>
<td></td>
<td>An introduction to the physical and cultural landscape of East (China, Japan, et al.), and Southeast Asia. Emphasis is placed upon the sequence of occupancy of the land, agrarian traditional economies and contemporary problems of development. Offered infrequently, on demand. Prerequisite(s)/Corequisite(s): Junior</td>
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<tr>
<td>GEOG 3130</td>
<td>ECONOMIC GEOGRAPHY (3 credits)</td>
<td></td>
<td>An introduction to the basic concepts and approaches in contemporary economic geography. The course examines the core economic activities from a geographical perspective, the historical development of the world economy, and the geographical effects of economic globalization. (Cross-listed with ECON 3130) Prerequisite(s)/Corequisite(s): Junior</td>
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<tr>
<td>GEOG 3230</td>
<td>GEOGRAPHY OF EUROPE (3 credits)</td>
<td></td>
<td>A comprehensive examination of contemporary Europe from a geographical perspective. The course covers physical, cultural, political, urban, population and economic geography of Europe as well as the recent political and economic transformations in both Western and Eastern Europe. Prerequisite(s)/Corequisite(s): GEOG 1000, GEOG 1020, or GEOG 1060 or GEOG 1070, and junior.</td>
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<tr>
<td>GEOG 3240</td>
<td>RUSSIA AND FORMER SOVIET REPUBLICS (3 credits)</td>
<td></td>
<td>A comprehensive examination of Russia and the former Soviet republics from a geographical perspective. The course is organized topically to cover physical, historical, political, urban, population and environmental geography. Special attention is given to geographical and environmental effects of the collapse of the former Soviet Union and the post-Communist transformation. Prerequisite(s)/Corequisite(s): GEOG 1000 or GEOG 1020 or GEOG 3130 and junior, or permission of instructor</td>
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<tr>
<td>GEOG 3330</td>
<td>UNITED STATES &amp; CANADA (3 credits)</td>
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<td>A consideration by regions of the economic life from a geographic viewpoint. Prerequisite(s)/Corequisite(s): Junior</td>
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<tr>
<td>GEOG 3440</td>
<td>NEBRASKA NATURAL RESOURCES MANAGEMENT (3 credits)</td>
<td></td>
<td>Method and actual application of managing natural resources in Nebraska, with emphasis on individual stewardship. The course will focus on the most current political, physical and economic developments in resources management. Prerequisite(s)/Corequisite(s): Junior standing or permission of the instructor.</td>
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<tr>
<td>GEOG 3510</td>
<td>METEOROLOGY (3 credits)</td>
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<td>A course designed to acquaint the student with the atmospheric environment. The course deals with atmospheric processes, their relationship and variation in both time and space, and their effect on the overall environment of the earth. Distribution: Natural/Physical Sci General Education lecture</td>
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<tr>
<td>GEOG 3514</td>
<td>INTRODUCTION TO METEOROLOGY LABORATORY (1 credit)</td>
<td></td>
<td>This lab is designed to give students practice with atmospheric processes using scientific principles techniques, procedures and data associated with meteorology. Offered on-line only. Prerequisite(s)/Corequisite(s): Concurrent or previous enrollment in GEOG 3510 Distribution: Natural/Physical Sci General Education lab course</td>
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<tr>
<td>GEOG 3520</td>
<td>CARTOGRAPHY &amp; GIS (2 credits)</td>
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<td>An introduction to the concepts and techniques of map construction and computer-based geographic information systems. Topics include map scale, map projections, thematic cartography, history of cartography, computer mapping, and global positioning systems. Particular attention is given to the processing and presentation of spatial data by the computer and the distribution of maps through the Internet. (Cross-listed with GEOG 8535). Prerequisite(s)/Corequisite(s): GEOG 1000 or GEOG 1020 and GEOG 1060 or GEOG 1070 and a statistics course.</td>
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<tr>
<td>GEOG 3540</td>
<td>CARTOGRAPHY &amp; GIS LAB (2 credits)</td>
<td></td>
<td>An introduction to the methods and techniques of map construction using both graphic design and geographic information system software. Topics include map design for both general reference and thematic maps. Particular attention is given to the processing, compilation, data classification, and symbolization of various types of spatial data. This course is the lab component of GEOG 3530. Prerequisite(s)/Corequisite(s): Concurrent or previous registration in GEOG 3530.</td>
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<tr>
<td>GEOG 3930</td>
<td>POLITICAL GEOGRAPHY (3 credits)</td>
<td></td>
<td>An introduction to the basic concepts and approaches in contemporary political geography at the global, national and local scales. Core topics to be examined include geopolitics, imperialism, war and peace, global ecopolitics, states, nationalism and electoral geography. Prerequisite(s)/Corequisite(s): Junior</td>
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</table>
GEOG 4010 CONSERVATION OF NATURAL RESOURCES (3 credits)
A study of conservation techniques and problems with particular emphasis on the United States. Includes philosophical and economic aspects of resource management and a systematic survey of traditional conservation topics including soils, forestry, water resources and energy. (Cross-listed with GEOG 8016).
Prerequisite(s)/Corequisite(s): Three hours of geography.

GEOG 4020 QUANTITATIVE ANALYSIS IN GEOGRAPHY (3 credits)
An introduction to multivariate statistical analysis and spatial statistics. Emphasis will be placed on the nature of geographic data, sampling theory and design, descriptive and spatial statistics, inferential statistics, correlation and regression analysis. Students will receive hands-on experience working with statistical data sets, software and scientific visualization of numerical results. (Cross-listed with GEOG 8026).
Prerequisite(s)/Corequisite(s): MATH 1530 or equivalent

GEOG 4030 COMPUTER MAPPING AND VISUALIZATION (3 credits)
Computer techniques in mapping and visualization of spatial data. Various forms of spatial data manipulation and computer graphic output techniques are examined. Particular attention is given to the incorporation of interaction and animation in the display of maps as well as the creation of maps for distribution through the Internet. (Cross-listed with GEOG 8036).
Prerequisite(s)/Corequisite(s): GEOG 3530 and GEOG 3540 or permission of instructor

GEOG 4040 GEOARCHAEOLOGY (3 credits)
The study of archaeology with the use of geological and geographical methodology. (Cross-listed with GEOG 8046).
Prerequisite(s)/Corequisite(s): Major in geology or geography; or major in anthropology, philosophy or religion with GEOG 1030, GEOG 1060 or GEOG 1070; or GEOL 1170 or GEOL 1010; or permission

GEOG 4050 GEOGRAPHIC INFORMATION SYSTEMS I (4 credits)
An introduction to the history and principles and geographic information systems (GIS). Emphasis will be placed on geographic data input, manipulation, analysis, and output functions. Exercises introduce students to GIS software and applications. (Cross-listed with GEOG 8056).
Prerequisite(s)/Corequisite(s): GEOG 3530 and GEOG 3540 or 6 credit hours of GEOG course.

GEOG 4100 BIOGEOGRAPHY (3 credits)
This course is intended as an introduction to biogeography, the study of the distribution of organisms in space and time. Usually offered every year. (Cross-listed with BIOL 4100, GEOG 4100, BIOL 8106, GEOG 8106, GEOG 8106).
Prerequisite(s)/Corequisite(s): BIOL 1450 and BIOL 1750 or GEOL 3100 or BIOL 3100, junior-senior.

GEOG 4120 URBAN GEOGRAPHY (3 credits)
A geography of the city from the viewpoint of history, site and situation, external relations, internal relations and the comparative study of cities. (Cross-listed with GEOG 8126).

GEOG 4140 URBAN SOCIOLOGY (3 credits)
Examines urban theoretical perspectives, urbanization processes, the diversity of metropolitan communities, urban stratification, metropolitan growth, urban neighborhoods, community power and urban policy and planning. (Cross-listed with GEOG 8146).
Prerequisite(s)/Corequisite(s): Nine hours of sociology including SOC 1010 or permission of instructor.

GEOG 4150 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (3 credits)
An advanced seminar focused on links among geography, gender and work, emphasizing leadership and entrepreneurship. The course considers theory and method in addition to empirical work. The nature of space, of gender, and of work, are examined. Topics include the gendering of work, the geography of entrepreneurship, gender and leadership. (Cross-listed with WGST 4150, ENTR 4150, ENTR 8156, GEOG 8156 and WGST 8156).
Prerequisite(s)/Corequisite(s): Junior, senior, or graduate standing, or permission of instructor.

GEOG 4160 URBAN SUSTAINABILITY (3 credits)
Using sustainability as a conceptual framework, students in this course will investigate a variety of social, economic, and environmental challenges facing cities of the 21st century. Topics and issues explored include urban growth and expansion, livability, equity & gentrification, energy use & production, urban farming, poverty, automobile & transportation, water security, urban pollution, and the role of cities in climate change. (Cross-listed with GEOG 8166).
Prerequisite(s)/Corequisite(s): Junior

GEOG 4170 ADVANCED CULTURAL GEOGRAPHY (3 credits)
This course examines current theoretical debate and research practice in a select topic in Cultural Geography. Emphasis will be on readings and discussion with students engaging in original research. Specific thematic focus will vary from year to year. This course may be taken multiple times as long as topics differ. (Cross-listed with GEOG 8176).
Prerequisite(s)/Corequisite(s): GEOG 1000 or GEOG 1020, junior standing, or permission of the instructor.

GEOG 4230 GREAT PLAINS & NEBRASKA (3 credits)
A study of the major physical and cultural attributes of the region. Emphasizes settlement history and the role of agriculture on the regional economy. (Cross-listed with GEOG 8236).

GEOG 4250 LANDFORM STUDIES: THEORY AND STRUCTURAL GEOMORPHOLOGY (3 credits)
Primarily a lecture course with emphasis on the historical development of theories in evolution of earth surface features and processes, coupled with underlying structural controls of landforms. (Cross-listed with GEOG 8256).
Prerequisite(s)/Corequisite(s): GEOG 1070 or GEOL 1170

GEOG 4260 PROCESS GEOMORPHOLOGY (3 credits)
Primarily a lecture and laboratory course. Emphasis on methodology and modern process-oriented geomorphology. (Cross-listed with GEOG 8266).
Prerequisite(s)/Corequisite(s): GEOG 1070 or GEOL 1170

GEOG 4320 CLIMATOLOGY (3 credits)
A study of climatic processes and their effect on shaping the physical landscape. Emphasis on physical and applied aspects of the field. (Cross-listed with GEOG 8326).
Prerequisite(s)/Corequisite(s): GEOG 1030, GEOG 1060 or GEOG 3510

GEOG 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (4 credits)
This course is designed to familiarize students with basic soil chemical, physical and biological properties, soil morphological characteristics, soil classification and soil forming processes. The course focuses on relationships between soils and environmental factors and how such factors alter soil forming processes. The lab will focus on developing basic field skills, including soil morphological descriptions and soil mapping, as well as common laboratory methods used to analyze soils. (Cross-listed with GEOG 4330, GEOG 8336).
Prerequisite(s)/Corequisite(s): GEOG 1030, GEOG 1050, GEOG 1060, GEOG 1170 or instructor permission.

GEOG 4340 WATER RESOURCES (3 credits)
A study of the applied principles of hydrology, water systems modeling, river basin development, and water management issues and practices in the United States and other parts of the world. (Cross-listed with GEOG 8346).
Prerequisite(s)/Corequisite(s): GEOG 1060 and Junior standing
GEOG 4530 HISTORICAL GEOGRAPHY OF U.S. (3 credits)
An analysis of historical circumstances behind contemporary patterns of American cultural geography. (Cross-listed with GEOG 8536).
Prerequisite(s)/Corequisite(s): Junior and HIST 1110 and HIST 1120 or GEOG 1020 or GEOG 3330

GEOG 4550 GEOGRAPHY OF ECONOMIC GLOBALIZATION (3 credits)
A study of the geography of economic globalization and the geography of the world economy. The major topics include the historical development of the world economy and globalization from the geographical perspective, trends in geography of global production, trade and investment, the most important factors and actors in the globalization processes and its geographic effects, geography of transnational corporations, case studies of economic geography of selected industries and service activities, effects of globalization on the developed and developing countries. This course also supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with GEOG 8556, CACT 8116).
Prerequisite(s)/Corequisite(s): An introductory level human geography course: GEOG 1020 or GEOG 1000

GEOG 4600 INDEPENDENT RESEARCH (1-3 credits)
Advanced study in the form of a major paper to give the senior student knowledge of and experience in using government documents, professional and primary materials concerned with a region. Must be under the supervision of the instructor who is particularly qualified for the topic chosen. (Cross-listed with GEOG 4600).
Prerequisite(s)/Corequisite(s): Permission of department chair.

GEOG 4610 ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)
An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. (Cross-listed with BIOL 4610, ENVN 4610, GEOG 4610, GEOG 8616, GEOG 8616)
Prerequisite(s)/Corequisite(s): Permission of instructor.

GEOG 4620 GEOGRAPHICAL FIELD STUDIES (3 credits)
Field experience course based on variable topics and themes. Students must attend the multiple day field trip that will require overnight stays. (Cross-listed with GEOG 4620).
Prerequisite(s)/Corequisite(s): Instructor Permission. Not open to non-degree graduate students.

GEOG 4630 ENVIRONMENTAL REMOTE SENSING (4 credits)
Introduction to remote sensing science and technology. Emphasis will be placed on multispectral data, matter/energy interactions, sensor system characteristics, photogrammetry, image interpretation, digital image processing and environmental applications. Formal laboratory instruction will provide students with problem-solving skills and hands-on experience with remote sensing and GIS software. (Cross-listed with GEOG 8636).
Prerequisite(s)/Corequisite(s): GEOG 1060 or GEOG 1070 or GEOG 1170. Introductory statistics highly recommended.

GEOG 4640 CRITICAL ZONE SCIENCE (3 credits)
This course examines the Critical Zone (CZ), Earth’s permeable layer that extends from the top of vegetation to the bottom of groundwater. The CZ is a constantly evolving layer where rock, soil, water, air, and living organisms interact to regulate the landscape and natural habitats; it also determines the availability of life-sustaining resources, including our food production and water quality. CZ science is an interdisciplinary and international endeavor focused on cross-disciplinary science. In this course, we will focus on using data available from the existing National Science Foundation (NSF)-funded CZ Observatories (CZO) along with readings, discussions and activities to explore interactions within the CZ. (Cross-listed with GEOG 8646, GEOG 4640)
Prerequisite(s)/Corequisite(s): GEOG 1170, GEOG 1010, GEOG 1030 or GEOG 1050; one chemistry or physics course recommended; or instructor permission.

GEOG 4660 GEOGRAPHIC INFORMATION SYSTEMS II (4 credits)
An Introduction to advanced geographic information system (GIS) topics. Emphasis will be placed on algorithms and analysis for information extraction. Topics include spatial interpolation, remote sensing GIS integration, software development, spatial analysis, GIS modeling, and future advances in GIS. Formal laboratory instruction will provide students with GIS experience to solve application problems. (Cross-listed with GEOG 8666).
Prerequisite(s)/Corequisite(s): GEOG 4050 / GEOG 8056

GEOG 4800 INTERNSHIP IN ENVIRONMENTAL REGIONAL PLANNING EARTH SCIENCE (1-6 credits)
Internship with local agencies or corporations enabling students to gain knowledge and experience in comprehensive regional or environmental planning or environmental science.
Prerequisite(s)/Corequisite(s): Senior, major or area of concentration in geography or environmental science and permission

GEOG 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)
Seminar on environmental law and regulation. The course will address federal regulations, implementing instructions, legal principles and requirements. The major federal environmental laws, air and water quality, solid and hazardous waste, and pollution prevention and remediation will be discussed. Usually offered Fall semesters. (Cross-listed with BIOL 4820, BIOL 8826, ENVN 4820, GEOG 8826, PA 4820, PA 8826)
Prerequisite(s)/Corequisite(s): Junior-senior and permission.

GEOG 4900 URBANIZATION IN DEVELOPING AREAS (3 credits)
The functions and morphology of various types of cities found in presently developing areas of the world. Emphasis will be upon contrasting the cities of the developed and developing areas. (Cross-listed with GEOG 8906).
Prerequisite(s)/Corequisite(s): Six hours of geography, or junior and GEOG 4120

GEOG 4950 SENIOR THESIS (3 credits)
An independent research project undertaken by geography majors during their final year. Topics will be selected in consultation with two appropriate faculty formally approved in writing by them before student registers for the course. Research will be field work, laboratory work and/or library sources.
Prerequisite(s)/Corequisite(s): Senior geography major