GEOG 1050: Introductory Meteorology
(same as ATM_SC 1050). Physical processes of atmosphere in relation to day-to-day changes in weather.

Credit Hours: 3
Prerequisites: Enrollment restricted to students enrolled in the College of Arts and Science
GEOG 1050 - MOTR PHYS 110: Essentials in Physical Sciences

GEOG 1100: Regions and Nations of the World I
Introductory analysis for general education. Regional character, spatial relationships, major problems of Europe, North America (United States and Canada) and Latin America. Organized around basic concepts in field of geography.

Credit Hours: 3
GEOG 1100 - MOTR GEOG 101: World Regional Geography

GEOG 1100H: Regions and Nations of the World I - Honors
Introductory analysis for general education. Regional character, spatial relationships, major problems of Europe, North America (United States and Canada) and Latin America. Organized around basic concepts in field of geography.

Credit Hours: 3
Prerequisites: Honors eligibility required

GEOG 1200: Regions and Nations of the World II
Introductory analysis for general education. Regional character, spatial relationships, problems of environment and development of the former Soviet Union, Pacific World, South and East Asia, Africa and Middle East. Organized around basic concepts in the field of geography. May be taken independently of GEOG 1100.

Credit Hours: 3

GEOG 1205H: Regions and Nations General Honors
Credit Hours: 3
Prerequisites: Honors eligibility required

GEOG 1550: Introduction to the Humanized Earth
Examines human culture as a geographical element; the power of culture and human institutions in human-environmental interaction and the creation of agriculture, folk culture, popular culture, cities, and a broad range of cultural landscapes.

Credit Hours: 3

GEOG 1560: Climate Change: Science and Public Policy
This course will explore the role of physical science, environmental politics and public policy in shaping contemporary debate concerning climate change, mitigation, and adaptation strategies. We will examine the scientific rationale and statistical basis underwriting the concept of climate change, why aspects of the science remain controversial, the prospects of institutional action and the difficulties inherent in developing public policies targeting mitigation and adaptation. Course includes a role-laying simulation where students will play roles based on 2009 climate negations in Copenhagen, Denmark. Graded on A-F basis only.

Credit Hours: 3
Prerequisites: freshman and sophomores only
GEOG 1600 - MOTR PHYS 110: Essentials in Physical Sciences

GEOG 1800: Digital Earth: Introduction to the Geospatial Technologies
Introduction to technologies used to map a changing world, with an emphasis on digital mapping explorations of human and environmental interactions on Earth. Course includes lab and fieldwork to introduce geographic information data collection and analysis techniques. Graded on A/F basis only. May be repeated for credit.

Credit Hours: 3
Prerequisites: Freshman and sophomore standing or instructor's consent

GEOG 1840: Global Environmental Change
Course uses a geographic framework to study patterns and processes related to global environmental change. Topics include environmental reconstruction, water resources, human-environment interactions, glaciers, fire, and climate.

Credit Hours: 3

GEOG 1900: Our Dynamic Planet in Film
This course focuses on using documentary films (e.g., Planet Earth) as a medium for studying how global environmental change is impacting all spheres of our dynamic planet. To ensure a more complete understanding of course material, films are supplemented with active lectures and discussions of assigned readings from both periodicals and peer-reviewed literature that emphasize key points illustrated in the films. In doing so, this course synthesizes material from numerous fields of study that fall under the burgeoning umbrella field of global change ecology. This synthetic approach is used to highlight the formidable linkages on Earth between the non-living and living, thus permitting students to gain an appreciation and holistic understanding of how global environmental change is impacting Earth processes responsible for creating both our current landscapes and the remarkable diversity of life that inhabit them.

Credit Hours: 3

GEOG 2010: Exploring Geography
We are all explorers. As children, we grew up testing the boundaries of our known worlds and trying to understand what was beyond. Geography gives us the means to formalize this impulse to explore the world around us, both local and distant. It allows us to make sense of the ways in which space and relationships between objects drives much of human, social, and environmental interaction. In this course, we will illustrate some of the principle ways in which Geographers investigate, explain, and map meaning, pushing the boundaries of what we know as individuals and society. Using a combination of discussion and field exercises, students will be asked to engage with a number of critical societal issues that have geographical elements at their core. Examples include the Geography of crime, imagining place, the city of the future, environmental change, terrorism, human trafficking, drones, and sustainability.

Credit Hour: 1
Part II focuses on the ways in which individuals are now seeking to find political change and a vast gap between global wealth and poverty. Huge social consequences, with rapid growth, population movements, globalization as an economic and geographical process, generating people have been making over the past fifty years. Part I examines the various responses—psychological, social and political— that the forces of globalization that are transforming our world, and explores (same as PEA_ST 2293, POL_SC 2293W). This course examines the concept of ‘global citizenship’. Graded on A-F basis only.

**GEOG 2293W: Globalization, Identity and Citizenship - Writing Intensive**
(same as PEA_ST 2293W, POL_SC 2293W). This course examines the forces of globalization that are transforming our world, and explores the various responses—psychological, social and political—that people have been making over the past fifty years. Part I examines globalization as an economic and geographical process, generating huge social consequences, with rapid growth, population movements, political change and a vast gap between global wealth and poverty. Part II focuses on the ways in which individuals are now seeking to find themselves in this globalizing world. Emphasis will be placed on the ways in which national identity, faith, gender and sexuality are emerging as key loci around which contemporary people (especially young people) are trying to forge new social identities for themselves. The course will conclude by examining the recently emerging (and highly contested) concept of ‘global citizenship’. Graded on A-F basis only.

**GEOG 2280: Race, Democracy, and Violence in Cuba and Haiti**
(same as PEA_ST 2280, SOCIOL 2280). A sociological approach to understand race/ethnicity, identity, citizenship, human rights, violence, and political and economic systems in the Caribbean. Comparisons of the culture, politics, and historical trajectories of Cuba and Haiti using Post-Colonial and Feminist theories. Graded on A-F basis only.

**GEOG 2280W: Race, Democracy, and Violence in Cuba and Haiti - Writing Intensive**
(same as PEA_ST 2280W, SOCIOL 2280W). A sociological approach to understand race/ethnicity, identity, citizenship, human rights, violence, and political and economic systems in the Caribbean. Comparisons of the culture, politics, and historical trajectories of Cuba and Haiti using Post-Colonial and Feminist theories. Graded on A-F basis only.

**GEOG 2289: Race, Democracy, and Violence in Cuba and Haiti - Writing Intensive**
(same as PEA_ST 2289, RU_SOC 2289). Focusing on towns and communities and their regional history and cultural traditions, we will examine the issues and concerns of small town America in the context of recent hardships and adverse economic trends. Examples of topics to be covered include case studies of communities such as Marceline, Missouri (Walt Disney’s boyhood home), race and the immigration of non-whites in to rural areas; gender roles in small communities, the role of religion in small-town identity formation, and other current issues faced by “middle America”. The responsiveness of government, large corporations, and institutions to the problems of diverse communities will be critically examined, with a multidisciplinary approach that will draw on key theories and works in the disciplines of sociology, rural sociology, community development, and geography. Graded on A-F basis only.

**GEOG 2293: Globalization, Identity and Citizenship**
(same as PEA_ST 2293, POL_SC 2293). This course examines the forces of globalization that are transforming our world, and explores the various responses—psychological, social and political—that people have been making over the past fifty years. Part I examines globalization as an economic and geographical process, generating huge social consequences, with rapid growth, population movements, political change and a vast gap between global wealth and poverty. Part II focuses on the ways in which individuals are now seeking to find themselves in this globalizing world. Emphasis will be placed on the ways in which national identity, faith, gender and sexuality are emerging as key loci around which contemporary people (especially young people) are trying to forge new social identities for themselves. The course will conclude by examining the recently emerging (and highly contested) concept of ‘global citizenship’. Graded on A-F basis only.

**GEOG 2340: South America**
Physical environment and culture in the regional development of South America.

**GEOG 2610: Climate, Landforms and Vegetation: Introduction to Physical Geography**
Examination of the interacting natural systems that comprise the Earth’s physical environment, including the atmosphere, biosphere, and landforms. Focus on relating fundamental physical, chemical and ecological processes to the global geographic patterns they produce.

**GEOG 2660: Environmental Geography**
Historical perspectives on the human agency in transforming the earth, with emphasis on international environmental problems. Topics include basic biogeography; environmental impacts of population growth, underdevelopment and overdevelopment; and new approaches to management of global resources.

**GEOG 2710: Economic Geography**
Geographical location and organization of world’s major economic activities. Emphasizes agricultural and industrial patterns, commodity flows, transport networks, geographical principles of market and industrial location, internal spatial organization of cities, land-use models, geographic aspects of economics growth.
### GEOG 2720: The City
Study of cities: origin, development, distribution; social, economic, and demographic significance. Consideration of theories of structure, urban hierarchies, and land use planning.

**Credit Hours:** 3

### GEOG 2904: Topics in Geography-Social Science
Organized study of selected topics. Subjects and earnable credit may vary from semester to semester.

**Credit Hour:** 1-3

**Prerequisites:** sophomore standing, departmental consent for repetition

### GEOG 2904W: Topics in Geography-Social Science - Writing Intensive
Organized study of selected topics. Subjects and earnable credit may vary from semester to semester.

**Credit Hour:** 1-3

**Prerequisites:** sophomore standing, departmental consent for repetition

### GEOG 3040: Introduction to Geographic Information Systems GIS
(same as CV_ENG 3050). Introduces theory, concepts and techniques related to the creation, manipulation, processing, and basic analysis of spatial data using GIS. Data management, current data models, GIS applications and course topics are reinforced through hands-on computer laboratory exercises.

**Credit Hours:** 3

**Prerequisites:** sophomore standing or instructor's consent

### GEOG 3140: Mexico, Central America, and the Caribbean
Physical environment and culture in the regional development of Mexico, Central America, and the Caribbean.

**Credit Hours:** 3

### GEOG 3270: Geography of the Middle East
Cultural, physical and historical geography of Middle East, with emphasis on cultural adaptations to environments and conflicts over the resources.

**Credit Hours:** 3

### GEOG 3385: Special Problems in Geography
Independent investigation leading to a paper or project. May be repeated to a maximum of 6 hours.

**Credit Hour:** 1-3

**Prerequisites:** instructor's consent

### GEOG 3496: Digital Indigenous Studies
(same as PEA_ST 3496). This course introduces students to Indigenous studies in a digital world. The course begins with study of Indigenous sovereignty and representation, and moves quickly to critical and theoretical readings in new media, tracing both the historical impact of digital technologies (such as GIS) on Native communities, and the ways that both urban and rural Native communities have engaged in innovative digital projects that expand the way we understand information and storytelling in digital environments. The course materials will cover a wide range of platforms and audio-visual genres, from documentary, community video, and animation productions, to GIS, video games, and social media sites. Students will engage with both scholars and artists working with new media through a program of public lectures, classroom visits, and Skype interviews. All interview will be archived as podcasts from the course website. Students will write weekly short response papers and produce independent audio-visual projects over the course of the semester, with opportunities to revise their work leading up to substantial final projects. The course will also integrate community outreach into the curriculum through online participation of students from the Kiowa Kids, an Indigenous language immersion and storytelling program.

**Credit Hours:** 3

### GEOG 3496W: Digital Indigenous Studies - Writing Intensive
(same as PEA_ST 3496). This course introduces students to Indigenous studies in a digital world. The course begins with study of Indigenous sovereignty and representation, and moves quickly to critical and theoretical readings in new media, tracing both the historical impact of digital technologies (such as GIS) on Native communities, and the ways that both urban and rural Native communities have engaged in innovative digital projects that expand the way we understand information and storytelling in digital environments. The course materials will cover a wide range of platforms and audio-visual genres, from documentary, community video, and animation productions, to GIS, video games, and social media sites. Students will engage with both scholars and artists working with new media through a program of public lectures, classroom visits, and Skype interviews. All interview will be archived as podcasts from the course website. Students will write weekly short response papers and produce independent audio-visual projects over the course of the semester, with opportunities to revise their work leading up to substantial final projects. The course will also integrate community outreach into the curriculum through online participation of students from the Kiowa Kids, an Indigenous language immersion and storytelling program.

**Credit Hours:** 3

### GEOG 3510: Historical Geography of North America
Analysis of selected geographical patterns and themes in the continent's past. Focus is explicitly geographical, stressing extensive use of maps and recent scholarly work by historical geographers.

**Credit Hours:** 3

### GEOG 3560: Native American Geographies
A survey of the Native American geographies in the United States. Historical and contemporary topics are covered employing cross-cultural perspectives including some philosophical views of the Earth and society, sense of place, memory, sacred land, colonialism and GIS representations, and natural resources.

**Credit Hours:** 3

### GEOG 3560W: Native American Geographies - Writing Intensive
A survey of the Native American geographies in the United States. Historical and contemporary topics are covered employing cross-cultural perspectives including some philosophical views of the Earth
and society, sense of place, memory, sacred land, colonialism and GIS representations, and natural resources.

Credit Hours: 3

GEOG 3580: Placewriting
This class explores creative nonfiction work that attends to the geographical dimensions of human experience and the character of place - "placewriting". Students will investigate how creative nonfiction evokes the human relationship with place and the geographical dimensions of personal and group identity. The class consists of two parts: discussion and critique of six creative nonfiction works on place, and a writer's workshop designed to enable students produce their own work in the genre focused on a local community or place.

Credit Hours: 3
Recommended: GEOG 1550

GEOG 3600: Climates of the World
(same as ATM_SC 3600). A study of the world distribution of climates based on "cause and effect" relationships. Special attention is given to the impacts of climate on humanity.

Credit Hours: 3
Prerequisites: GEOG 1050 or equivalent or graduate standing
Corequisites: By permission, only

GEOG 3610: Physical Geography of the United States
Study of natural regions of the United States by integrating topics from landforms, geology, climate, soils, vegetation, resources, and land use.

Credit Hours: 3
Prerequisites: GEOG 2610

GEOG 3630: Earth Surface Systems
Systematic study of landforms geomorphic processes governing them. Provides a foundation for the theoretical, technical, and practical understanding of environmental systems.

Credit Hours: 3

GEOG 3740: Geography and Planning
Emphasis on geographic techniques for gathering and generating environmental information for planners. Principles of land use planning will be applied to selected regions.

Credit Hour: 1-3

GEOG 3760: Geography of the World’s Religions
(same as REL_ST 3760). Explores the significance of place in the origin, diffusion, distribution and practice of religions, emphasizing imprints of religion on the cultural landscape and connections between culture, politics, economics, and religion.

Credit Hours: 3

GEOG 3780: World Political Geography: Patterns and Processes
(same as PEA_ST 3780). Geographic factors in the development of political boundaries traditions, and societal perspectives. Spatial patterns and geopolitical processes are explored in selected regions of the world.

Credit Hours: 3

GEOG 3800: Geography of Travel and Tourism
This course examines the fundamentals of the geography of tourism and travel in both foreign and domestic contexts. During the past few decades, tourism has been a fast growing industry around the world, although tourism can easily be negatively influenced by terrorism, natural disasters, and economic downturns. During the semester we'll look at several common types of tourism and focus on the positive and negative impacts of tourism upon local cultures, the environment, and economic development. Graded on A-F basis only.

Credit Hours: 3
Recommended: GEOG 1100 or GEOG 1200 or sophomore standing

GEOG 3830: Remote Sensing
Introduction to the principles of remote sensing of the environment. Digital imagery from spacecraft, conventional and high-altitude aerial photography, thermal imaging, and microwave remote sensing.

Credit Hours: 3
Recommended: GEOG 2840

GEOG 3840: Cartography
Principles of computer-assisted cartography. Automated cartographic display. "Hands on" experience with computer-mapping software and hardware systems. Role of computers in map design. Digital encoding of geographic data.

Credit Hours: 3
Prerequisites: GEOG 2840

GEOG 4130: The Geospatial Sciences in National Security
(Same as CV_ENG 4175). This course explores the critical contribution of the geospatial sciences in the collection, processing, visualization and analysis of geospatial information related to national security. May be repeated for credit.

Credit Hours: 3
Prerequisites: junior standing or above required

GEOG 4200: Geopolitics
(cross-leveled with GEOG 7200). Geopolitics examines politics, especially international relations, as influenced by geographical factors. To reveal and forecast global trends, we examine the interactions of geographical contexts and perspectives with international and domestic political processes. Our geopolitical analysis is both thematic and regional. Geographical themes are multi-disciplinary and include location and place, physical geography and natural resources, population and immigration, culture and ethnicity, religion, economics and trade, foreign policy, conflict, globalization, and development. These are examined in
the context of eight world regions and the polar realms. Graded on A-F basis only.

**Credit Hours:** 3  
**Recommended:** GEOG 1100 or GEOG 1200

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**GEOG 4390: Special Readings in Geography**  
Independent readings selected in consultation with supervisory faculty member. May be repeated to a maximum of 6 hours.  
**Credit Hour:** 1-3  
**Prerequisites:** instructor's consent and independent study contract

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**GEOG 4560: Resources and Indigenous Peoples**  
(cross-leveled with GEOG 7560). This is a survey of indigenous peoples' struggle to control and use natural resources, to have a say in determining the path of economic development, and to restrain the destructive tendencies of colonialism and capitalism, challenging traditional state-to-state relations.  
**Credit Hours:** 3  
**Prerequisites:** Junior standing required

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**GEOG 4560W: Resources and Indigenous Peoples - Writing Intensive**  
This is a survey of indigenous peoples' struggle to control and use natural resources, to have a say in determining the path of economic development, and to restrain the destructive tendencies of colonialism and capitalism, challenging traditional state-to-state relations.  
**Credit Hours:** 3  
**Prerequisites:** Junior standing required

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**GEOG 4620: Biogeography: Global Patterns of Life**  
Analysis of the patterns and processes of plant distribution in the contemporary landscape, stressing environmental influences and vegetation dynamics, particularly as they relate to North American vegetation.  
**Credit Hours:** 3  
**Recommended:** GEOG 2610

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**GEOG 4710: Spatial Analysis in Geography**  
Application of statistical methods to geographic research. Prepares students to utilize advanced methodologies and models in spatial analysis. Includes computer analysis of geographical data. Math Reasoning Proficiency Course  
**Credit Hours:** 3  
**Recommended:** MATH 1100 or MATH 1120

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**GEOG 4740: Geographic Information Systems for the Social Sciences**  
Organized study of selected topics. Subjects and earnable credit may vary from semester to semester. Must get departmental Consent for repetition.  
**Credit Hours:** 1-12  
**Prerequisites:** junior standing

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**GEOG 4770: Migration and Immigration**  
Explores demographic, economic, and social issues surrounding immigration and migration. The course focuses on the global labor migration system, immigration to the United States, and internal migration within the US, as well as the linkages between these systems.  
**Credit Hours:** 3

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**GEOG 4790: Geographic Information Systems for the Social Sciences - Writing Intensive**  
Organized study of selected topics. Subjects and earnable credit may vary from semester to semester. Must get departmental Consent for repetition.  
**Credit Hours:** 1-12

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**GEOG 4810: Landscape Ecology and GIS Analysis I**  
(same as NAT_R 4385). Examination of the landscape-scale approach to biodiversity, ecosystem dynamics, and habitat management. Particular emphasis on the use of Geographic Information Systems to analyze the spatial dimension of ecological patterns and processes.  
**Credit Hours:** 3  
**Prerequisites:** GEOG 3040, or instructor's consent

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**GEOG 4850: Transportation Geography**  
(same as CV_ENG 4155). Introduction to fundamental concepts and modes of analysis in transportation geography. Focus on descriptive, explanatory, as well as normative approaches. Topics reviewed include spatial organization, transportation economics, spatial interaction, network analysis, location/allocation, and urban transportation planning.  
**Credit Hours:** 3

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**GEOG 4860: Advanced Remote Sensing**  
Advanced remote sensing to provide digital image processing techniques for satellite and airborne imagery; emphasis on spatial/spectral analysis, image classification and land use/land cover change detection. Class project heavily involved.  
**Credit Hours:** 3  
**Prerequisites:** GEOG 3830

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**GEOG 4904: Topics in Geography-Social Science**  
Organized study of selected topics. Subjects and earnable credit may vary from semester to semester. Must get departmental Consent for repetition.  
**Credit Hour:** 1-12  
**Prerequisites:** junior standing

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**GEOG 4904W: Topics in Geography-Social Science - Writing Intensive**  
Organized study of selected topics. Subjects and earnable credit may vary from semester to semester. Must get departmental Consent for repetition.  
**Credit Hour:** 1-12
GEOG 4940: Advanced Geographic Information Systems (GIS II) (cross-leveled with GEOG 7940). Advanced study of geographic and spatial analysis and modeling utilizing Geographic Information Systems technology. Focus on project management, research applications, and geostatistical analysis through independent research projects.

Credit Hours: 3
Prerequisites: GEOG 3040 or instructor's permission

GEOG 4945: Internship in Applied Geography and Cartography
Regularized individual work experience with local, regional, state or national agencies, with guidance and readings supplied by faculty coordinator. May repeat to maximum of 6 hours.

Credit Hour: 1-3
Prerequisites: Departmental consent required

GEOG 4990: Senior Seminar in Geography
A seminar in selected themes in Geography. Class will focus on research, writing, presenting, and discussing themes in contemporary geography. Required of all majors prior to graduation.

Credit Hours: 3
Prerequisites: 5 courses in geography or instructor's consent

GEOG 4996H: Honors in Geography
Special work for Honors candidates in geography. Prerequisites: Honors eligibility required

Credit Hours: 3

GEOG 4996HW: Honors in Geography - Honors/Writing Intensive
Special work for Honors candidates in geography. Prerequisites: Honors eligibility required

Credit Hours: 3

GEOG 7620: Biogeography: Global Patterns of Life
Analysis of the patterns and processes of plant distribution in the contemporary landscape, stressing environmental influences and vegetation dynamics, particularly as they relate to North American vegetation.

Credit Hours: 3
Prerequisites: GEOG 2610 or instructor's consent

GEOG 7710: Spatial Analysis in Geography
Application of statistical methods to geographic research. Prepares students to utilize advanced methodologies and models in spatial analysis. Includes computer analysis of geographical data.

Credit Hours: 3
Recommended: MATH 1100 or MATH 1120

GEOG 7740: Location Analysis and Site Selection
(Same as CV_ENG 7185). An overview of location analysis in regional planning and spatial decision support, this course focuses on the use of Geographic Information Science (GIS) and location analysis methods in addressing regional service needs. May be repeated for credit.

Credit Hours: 3

GEOG 7770: Migration and Immigration
As fertility and mortality decline to record low levels, immigration and migration have become the primary components of population change. Changes brought on by immigration to a country and the internal redistribution of population via migration pose challenges to governments, economic development, social and cultural relations, and environmental sustainability. This course explores issues surrounding immigration and migration. Beginning with the demographic overview of immigration, it focuses on the challenges faced by immigrant, sending, and receiving nations in the global migration system. The second part of the course focuses on the array of issues surrounding immigration to the United States, including the socio-economic adaptation of immigrants, the economic and cultural impacts of immigration, and illegal immigration. The third part of the course focuses on internal migration within migration within the US, discussing topics such as migration to the Sunbelt, Great Plains depopulation, poverty migration, migration to the suburbs, and migration’s impact on community. Linkages between domestic migration and immigration will also be explored.

Credit Hours: 3

GEOG 7779: Geographic Information Systems for the Social Sciences
Designed for social science students interested in learning about the tools available in GIS for linking to an analyzing spatial qualitative data. Uses multiple data sources (qualitative and quantitative), applied within a social context, using spatial investigation procedures to detect geographical trends in data sets. Primary focus is on how GIS can enhance social science research.

Credit Hours: 3

GEOG 7810: Landscape Ecology and GIS Analysis I
(same as NAT_R 7385). Examination of the landscape-scale approach to biodiversity, ecosystem dynamics, and habitat management. Particular
emphasize on the use of Geographic Information Systems to analyze the spatial dimension of ecological patterns and processes.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>GEOG 7840: Geographic Information Systems I</td>
<td>Introductory study of theory, concepts and techniques related to basic analysis, creation and processing of geographic and spatial data using Geographic Information Systems (GIS). Independent learning and computer-based laboratory exercises supplement theoretical lectures and discussion. Credit Hours: 3 Prerequisites: instructor's consent</td>
</tr>
<tr>
<td>GEOG 7850: Transportation Geography (same as CV_ENG 7155)</td>
<td>Introduction to fundamental concepts and modes of analysis in transportation geography. Focus on descriptive, explanatory, as well as normative approaches. Topics reviewed include spatial organization, transportation economics, spatial interaction, network analysis, location/allocation, and urban transportation planning. Credit Hours: 3</td>
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<td>GEOG 7860: Advanced Remote Sensing</td>
<td>Advanced remote sensing to provide digital image processing techniques for satellite and airborne imagery; emphasis on spatial/spectral analysis, image classification and land use/land cover change detection. Class project heavily involved. Credit Hours: 3 Prerequisites: GEOG 3830</td>
</tr>
<tr>
<td>GEOG 7904: Topics in Geography-Social Science</td>
<td>Organized study of selected topics. Subjects and earnable credit may vary from semester to semester. May be repeated for credit with departmental consent. Credit Hour: 1-12 Prerequisites: instructor's consent</td>
</tr>
<tr>
<td>GEOG 7940: Advanced Geographic Information Systems (GIS II) (cross-leveled with GEOG 4940)</td>
<td>Advanced study of geographic and spatial analysis and modeling utilizing Geographic Information Systems technology. Focus on project management, research applications, and geostatistical analysis through independent research projects. Credit Hours: 3 Prerequisites: GEOG 7840 or instructor's consent</td>
</tr>
<tr>
<td>GEOG 8080: Research in Geography</td>
<td>Research not leading to a thesis. May be repeated to a maximum of 6 hours. Graded on S/U basis only. Credit Hour: 1-6 Prerequisites: instructor's consent</td>
</tr>
<tr>
<td>GEOG 8085: Special Investigations in Geography</td>
<td>Advanced studies to meet the needs of the individual student. May be repeated to a maximum of 6 hours. Credit Hour: 1-3</td>
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<tr>
<td>GEOG 8090: Research in Geography</td>
<td>Research leading to a thesis. May be repeated to a maximum of 8 hours. Graded on S/U basis only. Credit Hours: 1-8 Prerequisites: instructor's consent and independent study contract</td>
</tr>
<tr>
<td>GEOG 8270: Seminar in the Geography of the Middle East</td>
<td>Advanced readings and analysis of topics in the geography of the Middle East. Credit Hours: 3 Prerequisites: instructor's consent</td>
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<tr>
<td>GEOG 8710: Seminar</td>
<td>May be repeated to a maximum of 6 hours. Credit Hour: 1-3 Prerequisites: departmental consent</td>
</tr>
<tr>
<td>GEOG 8750: Research Design</td>
<td>Application of scientific methods in geographic research. Critical evaluation of current geographical methodology. Credit Hours: 3 Prerequisites: restricted to graduate geography majors graduate or instructor's consent</td>
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<tr>
<td>GEOG 8760: Geographic Thought</td>
<td>Discussion of the historic roots of the discipline, especially the ideas, theories and underlying philosophies that have defined Geography in the past century and a half. Students will also explore the philosophical and theoretical ideas that shape the way geographers approach the study of the world. Credit Hours: 3 Prerequisites: instructor's consent</td>
</tr>
<tr>
<td>GEOG 8820: Field Geography</td>
<td>Techniques of geographical investigation in the field. Credit Hours: 3 Prerequisites: restricted to graduate Geography majors or instructor's consent</td>
</tr>
<tr>
<td>GEOG 8902: Topics in Geography-Biological/Physical/Mathematical</td>
<td>Organized study of selected topics. Subjects and earnable credit may vary from semester to semester. May be repeated for credit with departmental consent. Credit Hour: 1-3 Prerequisites: instructor's consent</td>
</tr>
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