GEOG Geography

GEOG 1101 Introduction to Human Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Basic concepts of cultural geography including characteristics and spatial patterns of population, religions, settlements, economies, languages, nutrition, health, migration, economic development, art, music, and other cultural phenomena.
Cross Listing(s): GEOG 1101H, GEOG 1101S.

GEOG 1101H Introduction to Human Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Basic concepts of cultural geography including characteristics and spatial patterns of population, religions, settlements, economies, languages, nutrition, health, migration, economic development, art, music, and other cultural phenomena.
Cross Listing(s): GEOG 1101H, GEOG 1101.

GEOG 1110 Climate and the Landscape Lab
1 Credit Hour.  0 Lecture Hours.  2 Lab Hours.
A series of laboratories and exercises designed to provide hands-on applications of general theories regarding earth processes discussed in GEOG 1111, Climate and the Landscape.
Prerequisite(s): Highly recommended to be taken concurrently with GEOG 1111.

GEOG 1111 Climate and the Landscape
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
The earth's surface in its areal differentiation. Focuses on the various elements of physical geography that act as a foundation to the discipline, including location and interaction of physical surficial phenomena.
Prerequisite(s): Highly recommended to be taken concurrently with GEOG 1110.

GEOG 1130 World Regional Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Study of geographic regions of the world emphasizing physical landscapes, resources, economies, culture and politics. Selected problems or situations of contemporary interest will be incorporated.
Cross Listing(s): GEOG 1130H, GEOG 1130S.

GEOG 1130H World Regional Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Study of geographic regions of the world emphasizing Physical landscapes, resources, economies, culture and politics. Selected problems or situations of contemporary interest will be incorporated.
Cross Listing(s): GEOG 1130, GEOG 1130S.

GEOG 1130S World Regional Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Study of geographic regions of the world emphasizing physical landscapes, resources, economies, culture and politics. Selected problems or situations of contemporary interest will be incorporated.
Cross Listing(s): GEOG 1130, GEOG 1130H.

GEOG 3130 Conservation
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Examination of environmental factors in the setting of human activities. Emphasis is on modern efforts in conservation and resource management concerning wildlife, forests, fisheries, agriculture, rangeland, water, soils and oceans.
Prerequisite(s): GEOG 1111 or BIOL 1130 or BIOL 1230 or BIOL 1331 or BIOL 1335 or TCGT 1530 or permission of instructor.
Cross Listing(s): GEOG 3130S.

GEOG 3130S Conservation
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Examination of environmental factors in the setting of human activities. Emphasis is on modern efforts in conservation and resource management concerning wildlife, forests, fisheries, agriculture, rangeland, water, soils and oceans.
Prerequisite(s): BIOL 1130, or BIOL 1230 or BIOL 1331, or BIOL 1335 or TCGT 1530 or GEOG 1111 or permission of instructor.
Cross Listing(s): GEOG 3130.

GEOG 3230 Economic Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Study of the distribution, production and utilization of the world's basic commodities.
Prerequisite(s): GEOG 1101 or GEOG 1130.
Cross Listing(s): GEOG 3230S.

GEOG 3230S Economic Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Study of the distribution, production and utilization of the world's basic commodities.
Prerequisite(s): GEOG 1101 or GEOG 1130.
Cross Listing(s): GEOG 3230.

GEOG 3330 Weather and Climate
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Elements and controls of weather and climate and the distribution and characteristics of climate regions.
Prerequisite(s): GEOG 1111.

GEOG 3440 Introduction to GIS and Cartography
0.4 Credit Hours.  0.2 Lecture Hours.  0.4 Lab Hours.
An introduction to the basic concepts, theories, techniques, and applications of Geographic Information Systems (GIS) and cartography. Students will learn and apply GIS and cartographic concepts to gain extensive hands-on experience in thematic mapping and manipulation of geo-referenced spatial information using GIS software.

GEOG 3530 Cultural Geography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
An examination of the world's diverse cultural landscapes. Emphasis on the connections between social, political, religious and agricultural patterns and the impact of societies on the natural environment.
Prerequisite(s): GEOG 1101 or GEOG 1130.

GEOG 3741 Remote Sensing
0.4 Credit Hours.  0.2 Lecture Hours.  0.4 Lab Hours.
Introduction to the concepts, theory, collection, analysis and applications of remotely sensed spatial information.
Prerequisite(s): Permission of instructor required.
Cross Listing(s): GEOL 3741.

GEOG 4120 Introduction to Research
2 Credit Hours.  2 Lecture Hours.  0 Lab Hours.
The process of research utilizing the scientific method will be studied. Research methods in human and physical geography are discussed and critiqued. Methodologies including literature searches, topic selection and refinement, and research problem solving will be discussed. A proposal for a research project will be selected or assigned, a proposal written, and an oral presentation of the proposed research will be made. A minimum grade of “B” is required to continue in the research sequence.
Prerequisite(s): Permission of instructor required.
GEOG 4130 Biogeography
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Introduces students to biogeography: the study of the distribution of plants and animals. Both historical taxonomic and ecosystems biogeography are covered. The analysis and explanation of spatial patterns of plant and animal distribution, while addressing change in species distribution and evolution in response to climate change and the process of continental drift that have taken place in the past and are taking place today, will be emphasized.
Prerequisite(s): GEOG 1111 or BIOL 1130 or BIOL 1230 or BIOL 1331 or BIOL 1335 or GEOL 1430.

GEOG 4131 Geography of the American South
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Systematic regional treatment of the South including the physical, cultural and economic aspects of its various regions.

GEOG 4232 Geography of Latin America
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Study of the physical, cultural and economic geography of Latin America, including Mexico.
Cross Listing(s): LAST 4232.

GEOG 4233 Geography of Africa
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
A survey of the physical, cultural, political and economic geography of the countries of Africa. Selected problems or situations of contemporary interest will be incorporated.
Cross Listing(s): GEOG 4233S.

GEOG 4233S Geography of Africa
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
A survey of the physical, cultural, political and economic geography of the countries of Africa. Selected problems or situations of contemporary interest will be incorporated.

GEOG 4330 Geography of Africa South of the Sahara
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
A survey of the physical, cultural, political and economic geography of Africa south of the Sahara Desert. Selected problems or situations of contemporary interest will be incorporated.
Cross Listing(s): AAST 4330.

GEOG 4430 Geography of Europe
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Survey of the physical, cultural, political and economic geography of Europe. Situations of contemporary interest will be included.
Cross Listing(s): GEOG 4430S.

GEOG 4430S Geography of Europe
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Survey of the physical, cultural, political and economic geography of Europe. Situations of contemporary interest will be included.

GEOG 4542 Intermediate GIS
0.4 Credit Hours.  0.2 Lecture Hours.  0.4 Lab Hours.
An introduction to advanced data models and spatial data analysis functions of Geographic Information Systems (GIS) software, with an emphasis on the conversion among various GIS data formats and geodatabase construction and management.
Prerequisite(s): GEOG 3440.

GEOG 4543 Advanced GIS: Spatial Analysis and Modeling
4 Credit Hours.  2 Lecture Hours.  4 Lab Hours.
This course covers the advanced spatial analysis and modeling functions of GIS and offers both fundamental theoretical background and extensive hands-on experience in spatial analysis and modeling. Major topics include network analysis, surface modeling, spatial patterns analysis, spatial data visualization, and basics of spatial statistics.
Prerequisite(s): GEOG 3440 and GEOG 4542.

GEOG 4609 Selected Topics
1-9 Credit Hours.  0-9 Lecture Hours.  0-9 Lab Hours.
Offered with or without a lab on an experimental basis. Graduate students will complete an individual term project or special report.
Cross Listing(s): GEOG 5090S, GEOG 5090G.

GEOG 5090S Selected Topics
1-9 Credit Hours.  0-9 Lecture Hours.  0-9 Lab Hours.
Offered with or without a lab on an experimental basis. Graduate students will complete an individual term project or special report.
Cross Listing(s): GEOG 5090, GEOG 5090G.

GEOG 5091 Applied GIS
4 Credit Hours.  0 Lecture Hours.  8 Lab Hours.
Applications of advanced GIS design and modeling to a specific topical and/or geographic area. Topics and studies will be varied over time.
Prerequisite(s): GEOG 3440 and GEOG 4542 and GEOG 4543.

GEOG 5130 Geography of North America
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
Systematic regional treatment of Canada and the United States including the physical, cultural, and economic aspects of various sub regions. Special attention will be paid to comparative themes such as resource development, trade, and migration. Graduate students will complete an individual term project or special report.
Cross Listing(s): GEOG 5130G.
GEOG 5230 Urban Geography
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
An analysis of site, situation, base, principal functions, distribution, supporting areas and internal structure of urban settlements. Graduate students will complete an individual term project or special report.
Prerequisite(s): GEOG 1101 or GEOG 1130.
Cross Listing(s): GEOG 5230S, GEOG 5230G.

GEOG 5230S Urban Geography
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
An analysis of site, situation, base, principal functions, distribution, supporting areas and internal structure of urban settlements. Graduate students will complete an individual term project or special report.
Prerequisite(s): GEOG 1101 or GEOG 1130.
Cross Listing(s): GEOG 5230, GEOG 5230G.

GEOG 5330 Population Geography
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course explores issues and themes related to the patterns, processes, and consequences of the spatial distribution of the world’s population. The course is organized around the fundamental components of population change, fertility, mortality, and migration. Current events related to population change and distribution in multiple geographical contexts will constitute a primary focus of the course. Prerequisite(s): GEOG 1101 or GEOG 1130.
Cross Listing(s): GEOG 5330G.

GEOG 5430 Political Geography
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course will cover the geography of political behavior from the local to the global scale by examining the relationship of geography and politics. Students will investigate the rapidly changing geopolitics of the era in which they live, with special emphasis on international relations, sovereignty, war, and terrorism. Additionally, the course will focus on redistricting, the Electoral College, and other geographic elements of our American democratic system. Graduate students will learn how to undertake an independent, supervised research project in the field of political geography.
Prerequisite(s): GEOG 1101 or GEOG 1130.
Cross Listing(s): GEOG 5430S, GEOG 5430G.

GEOG 5430S Political Geography
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course will cover the geography of political behavior from the local to the global scale by examining the relationship of geography and politics. Students will investigate the rapidly changing geopolitics of the era in which they live, with special emphasis on international relations, sovereignty, war, and terrorism. Additionally, the course will focus on redistricting, the Electoral College, and other geographic elements of our American democratic system. Graduate students will learn how to undertake an independent, supervised research project in the field of political geography.
Prerequisite(s): GEOG 1101 or GEOG 1130.
Cross Listing(s): GEOG 5430.

GEOG 5590 Field Studies in Geography
3-8 Credit Hours. 3-8 Lecture Hours. 0 Lab Hours.
An intensive course on a specific region of the world conducted in that region combining lecture, observation and travel. Students usually will bear tuition, travel and living expenses during the course. May be repeated for credit in different regions. Graduate students will complete an individual term project or special report.
Cross Listing(s): GEOG 5590S, GEOG 5590G.

GEOG 5590S Field Studies in Geography
3-8 Credit Hours. 3-8 Lecture Hours. 0 Lab Hours.
An intensive course on a specific region of the world conducted in that region combining lecture, observation and travel. Students usually will bear tuition, travel and living expenses during the course. May be repeated for credit in different regions. Graduate students will complete an individual term project or special report.
Cross Listing(s): GEOG 5590, GEOG 5590G.

GEOG 5890 Directed Study
1-4 Credit Hours. 1-4 Lecture Hours. 0 Lab Hours.
Independent study for advanced students. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.
Prerequisite(s): Approval of Department Chair is required.
Cross Listing(s): GEOG 5890S, GEOG 5890G.

GEOG 5890S Directed Study
1-4 Credit Hours. 1-4 Lecture Hours. 0 Lab Hours.
Independent study for advanced students. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.
Prerequisite(s): Approval of Department Chair is required.
Cross Listing(s): GEOG 5890, GEOG 5890G.