Geography - GEOG

Courses

GEOG 1010/1013 GLOBAL GEOGRAPHY (3) LEC. 3. Social Science I Core. Spatial and locational context for analyzing change in the contemporary world, including elements of both physical and cultural environments.

GEOG 1017 HONORS GLOBAL GEOGRAPHY (3) LEC. 3. Pr. Honors College Spatial and locational context for analyzing change in the contemporary world, including elements of both physical and cultural environments.

GEOG 2010 HUMAN GEOGRAPHY (3) LEC. 3. Spatial perspectives on modern society such as population change, economics, politics, urban development, and local culture, and geography’s approach to solving problems using case studies and issues.

GEOG 2020 PHYSICAL GEOGRAPHY (3) LEC. 3. Selected elements of the earth’s physical system to include such items as landforms, basic weather elements, soils and vegetation.

GEOG 2800 GEOGRAPHIC METHODS AND TECHNIQUES (4) LEC. 3. LAB. 2. Pr. COMP 1000 or COMP 1003. Departmental approval. Key geographical concepts and production of basic geographical tools for portraying spatial data through laboratory exercises.

GEOG 2850 MAP READING AND ANALYSIS (3) LEC. 2. LAB. 2. Introduction to basic concepts and techniques used to interpret map symbols and to analyze geographic patterns.

GEOG 3000 SPORTS GEOGRAPHY (3) LEC. 3. Geographical basis of sports at different spatial scales, including locational strategies, sportive nationalism, and the urban political economy of sports.

GEOG 3110 UNITED STATES AND CANADA (3) LEC. 3. Survey of the region incorporating physical and cultural elements, providing a synthesis of the economic and political processes of the U.S. and Canada.

GEOG 3120 ALABAMA AND THE SOUTHEAST (3) LEC. 3. Study of the physical and cultural environments of the state.

GEOG 3130 LATIN AMERICA (3) LEC. 3. Survey of physical and human landscape of the region including historical geography, natural resources, economic development and problems and prospects affecting major countries.

GEOG 3140 AFRICA (3) LEC. 3. Analysis of the relationships among diverse population groups and the physical environments of sub-Saharan Africa.

GEOG 3150 EUROPE (3) LEC. 3. Survey of physical and human landscape of the region including historical geography, natural resources, economic development, and problems and prospects affecting several of the major countries.

GEOG 3160 ASIA (3) LEC. 3. Survey of the physical and cultural landscape of Asia, including its development and spatial distribution of resources, with a focus on major countries.

GEOG 3300 INTERNATIONAL TRAVEL AND TOURISM (3) LEC. 3. Environmental and cultural patterns that characterize places attractive to tourists. Provides realistic situations for developing travel plans and programs.

GEOG 3810 CARTOGRAPHY AND GRAPHICS (4) LEC. 3. LAB. 2. Pr. GEOG 2800. Departmental approval. Techniques of map production including relevant computer graphics applications and related laboratory exercises.

GEOG 4740 SENIOR SEMINAR (3) LEC. 3. Pr., Geology/Geography majors with upper-class standing. Individual research by geoscience undergraduates is coupled with improved written and oral communication skills and resume - ePortfolio development. May count either GEOG 4740 or GEOL 4740.

GEOG 4920 INTERNSHIP (3) LEC. 3. Opportunity to apply classroom experience to real job setting. Course may be repeated for a maximum of 6 credit hours.

GEOG 4930 DIRECTED STUDIES (1-4) IND. Departmental approval. Conferences, reading, research and/or reports may fulfill course requirement. Course may be repeated for a maximum of 4 credit hours.
GEOG 5010 URBAN GEOG AND SUSTAINABILITY (3) LEC. 3. Senior standing or Departmental approval. An introduction to the field of urban geography and urban sustainability. Basic principles and processes that constitute the growth of urban areas, history, impact of urbanization, adaptation and mitigation towards a sustainable future.

GEOG 5210 CLIMATOLOGY (3) LEC. 3. Pr., Senior standing or departmental approval. An introduction to the field of climatology. Basic principles and process that constitute the earth's climate system (e.g. surface-atmosphere energy budget, the hydrologic cycle, and atmospheric motion) as well as climate change and sea level rise.

GEOG 5220 GEOMORPHOLOGY (3) LEC. 2. LAB. 2. Basic concepts, terms, and techniques used to identify landforms and their evolutionary processes. Study of the origin of landforms with emphasis on the eologic processes and structures that generate the landforms and applications of landform analysis. Two all-day weekend trips are required. Two one-hour classes and one two-hour laboratory per week.

GEOG 5300 ADVANCED REGIONAL STUDIES IN GEOGRAPHY (3) LEC. 3. Departmental approval. Spatial patterns of socio-economic development of Latin America and the Caribbean.

GEOG 5310 GEOGRAPHY OF RURAL CHANGE (3) LEC. 3. Examination of the patterns and processes associated with population levels and distributions, natural resource management systems, economic development, and cultural landscapes of rural communities. Credit will not be given for both GEOG 5310 and GEOG 6310.

GEOG 5350 ECONOMIC GEOGRAPHY (3) LEC. 3. Departmental approval. Economic Geography in a global context. Spatial aspects of resource use, agricultural development, manufacturing production and services.

GEOG 5380 POLITICAL GEOGRAPHY (3) LEC. 3. Examination of political processes over space, from local to the global levels. The course examines the development of political space, geographies of voting, the role of identity in shaping nationalism, and the geopolitical relationship between power and place.

GEOG 5400 GEOGRAPHY OF NATURAL HAZARDS (3) LEC. 3. Geography of natural hazards and their impacts on society. Credit will not be given for both GEOG 5400 and GEOG 6400.


GEOG 5510 HUMAN-ENVIRONMENT INTERACTION (3) LEC. 3. Departmental approval. Investigation of the inter-relationships between humans and their natural or physical environments.

GEOG 5550 GEOGRAPHY OF WATER RESOURCES (3) LEC. 3. Study of water use, management, law, and conflicts at local and international scales. May count either GEOG 5550 or GEOG 6550.

GEOG 5600 GLOBAL RESOURCES AND THE ENVIRONMENT (3) LEC. 3. Departmental approval. Global environmental problems such as climate change, ozone and deforestation and international public agencies and private volunteer movements protecting our global commons.

GEOG 5700 QUANTITATIVE METHODS AND SPATIAL ANALYSIS (3) LEC. 3. Pr. STAT 2510 or STAT 2513. Pr., STAT 2510 or similar statistics course. Applications of quantitative methods and spatial statistics to environmental, urban and economic systems and implementations of these techniques in GIS and statistical software. Credit will not be given for both GEOG 5710 and GEOG 6710.

GEOG 5710 GEOGRAPHIC FIELD METHODS (3) LEC. 1. LAB. 4. Geographic methods and techniques used to conduct field research investigations of human and physical characteristics of the landscape. Credit will not be given for both GEOG 5710 and GEOG 6710.

GEOG 5720 PANAMA STUDY ABROAD-CLIMATE CHANGE AND ENVIRONMENT (3) LEC. 3. Departmental approval. Four-week course intended to give students a general understanding of the potential impacts of climate change on Panama's environment via a mix of lectures, hands-on activities and field trips.

GEOG 5800 GEOGRAPHIC THOUGHT (3) LEC. 3. Departmental approval. Develops effective thinking skills, evaluates written materials in geography, reviews geographical research and produces written reports and papers related to geographic issues.

GEOG 5820 AERIAL PHOTOGRAPHY AND REMOTE SENSING (4) LEC. 3. LAB. 2. Departmental approval. Aerial photo and satellite digital interpretation, photogrammetry, remote sensing technology and photogrammetry and related laboratory exercises.

GEOG 5830 GEOGRAPHIC INFORMATION SYSTEMS (4) LEC. 3. LAB. 2. Introduction to concepts and techniques used in developing a geographic information system (GIS) for evaluating spatial distribution patterns and spatial relationships.
GEOG 5850 GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS (3) LEC. 3. LAB. 3. Pr. GEOG 5830 or GEOG 6830.
Introducing the concepts and implementations of the geographic information analysis and integrate GIS with real-world applications. This is a follow-up course of GEOG 5830/GEOG/6830.

GEOG 5860 ADVANCED CONCEPTS IN CARTOGRAPHY (3) LEC. 2. LAB. 2. Pr. GEOG 3810. Advanced techniques of map design and production including relevant computer graphics applications and related laboratory exercises. Credit will not be given for both GEOG 5860 and GEOG 6860.

GEOG 5870 ADVANCED REMOTE SENSING (3) LEC. 2. LAB. 2. Pr. GEOG 5820. Explores advanced topics of remote sensing for use in research and analysis. Credit will not be given for both GEOG 5870 and GEOG 6870.

GEOG 5880 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (3) LEC. 2. LAB. 2. Pr. GEOG 5830. Advanced concepts and techniques used in the collection and analysis of data for evaluating spatial patterns and process. Credit will not be given for both GEOG 5880 and GEOG 6880.

GEOG 5970 SEMINAR IN GEOGRAPHY (3) LEC. 3. Development of modern geographic thinking with attention to applied research topics. Course may be repeated for a maximum of 6 credit hours.

GEOG 6010 URBAN GEOG AND SUSTAINABILITY (3) LEC. 3. Pr., Graduate standing. An introduction to the field of urban geography. Basic principles and processes that constitute the growth of urban areas, history and impact of urban footprint. Urban development is placed in the contemporary scenario of anthropogenic activities molding the urban environment (e.g. climate change).

GEOG 6210 CLIMATOLOGY (3) LEC. 3. Pr., Senior standing or departmental approval. An introduction to the field of climatology. Basic principles and process that constitute the earth's climate system (e.g. surface-atmosphere energy balance, the hydrologic cycle, and atmospheric motion, as well as climate change and sea level rise.

GEOG 6220 GEOMORPHOLOGY (3) LEC. 3. Basic concepts, terms, and techniques used to identify landforms and their evolutionary processes. Credit will not be given for both GEOG 5220 and GEOG 6220.

GEOG 6300 ADVANCED REGIONAL STUDIES IN GEOGRAPHY (3) LEC. 3. Departmental approval. Spatial patterns of socio-economic development of Latin America and the Caribbean.

GEOG 6310 GEOGRAPHY OF RURAL CHANGE (3) LEC. 3. Examination of the patterns and processes associated with population levels and distributions, natural resource management systems, economic development, and cultural landscapes of rural communities. Credit will not be given for both GEOG 5310 and GEOG 6310.

GEOG 6350 ECONOMIC GEOGRAPHY (3) LEC. 3. Departmental approval. Economic Geography in a global context. Spatial aspects of resource use, agricultural development, manufacturing production and services.

GEOG 6400 GEOGRAPHY OF NATURAL HAZARDS (3) LEC. 3. Geography of natural hazards and their impacts on society. Credit will not be given for both GEOG 5400 and GEOG 6400.

GEOG 6500 GEOGRAPHY OF ENVIRONMENTAL MANAGEMENT (3) LEC. 3. Departmental approval. Understanding and application of the theories and methods for the United States’ version of environmental impact assessment.

GEOG 6510 HUMAN-ENVIRONMENT INTERACTION (3) LEC. 3. Departmental approval. Investigation the inter-relationships between humans and their natural or physical environments.

GEOG 6550 GEOGRAPHY OF WATER RESOURCES (3) LEC. 3. Study of water use, management, law, and conflicts at local and international scales. May count either GEOG 5550 or GEOG 6550.

GEOG 6600 GLOBAL RESOURCES AND THE ENVIRONMENT (3) LEC. 3. Departmental approval. Global environmental problems such as climate change, ozone and deforestation and international public agencies and private volunteer movements protecting our global commons.

GEOG 6700 QUANT METH & SPATIAL ANALYSIS (3) LEC. 3. Pr. STAT 2510 or STAT 2513. or similar statistics course. Applications of quantitative methods and spatial statistics to environmental, urban and economic systems and implementations of these techniques in GIS and statistical software. Credit will not be given for both GEOG 5700 and GEOG 6700.

GEOG 6710 GEOGRAPHIC FIELD METHODS (3) LEC. 1. LAB. 4. Geographic methods and techniques used to conduct field research investigations of human and physical characteristics of the landscape. Credit will not be given for both GEOG 5710 and GEOG 6710.
GEOG 6720 PANAMA STUDY ABROAD-CLIMATE CHANGE AND ENVIRONMENT (3) LEC. 3. Departmental approval. Four-week course intended to give students a general understanding of the potential impacts of climate change on Panama's environment via a mix of lectures, hands-on activities and field trips.

GEOG 6800 GEOGRAPHIC THOUGHT (3) LEC. 3. Departmental approval. Develops effective thinking skills; evaluates written materials in geography; Reviews geographical research and produces written reports and papers related to geographic issues.

GEOG 6820 AERIAL PHOTOGRAPHY AND REMOTE SENSING (4) LEC. 3. LAB. 2. Departmental approval. Aerial photo and satellite digital interpretation, photogrammetry, remote sensing technology and photogrammetry and related laboratory exercises.

GEOG 6830 GEOGRAPHIC INFORMATION SYSTEMS (4) LEC. 3. LAB. 2. Departmental approval. Introduction to concepts and techniques used in developing a geographic information system (GIS) for evaluating spatial distribution patterns and spatial relationships.

GEOG 6850 GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS (3) LEC. 3. LAB. 3. Pr. GEOG 5830 or GEOG 6830. Introducing the concepts and implementations of the geographic information analysis and integrate GIS with real-world applications. This is a follow-up course of GEOG 5830/GEOG/6830.

GEOG 6860 ADVANCED CONCEPTS IN CARTOGRAPHY (3) LEC. 2. LAB. 2. Pr. GEOG 3810. Advanced techniques of map design and production including relevant computer graphics applications and related laboratory exercises. Credit will not be given for both GEOG 5860 and GEOG 6860.

GEOG 6870 ADVANCED REMOTE SENSING (3) LEC. 2. LAB. 2. Pr. GEOG 6820. Explores advanced topics of remote sensing for use in research and analysis. Credit will not be given for both GEOG 5870 and GEOG 6870.

GEOG 6880 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (3) LEC. 2. LAB. 2. Pr. GEOG 6830. Advanced concepts and techniques used in the collection and analysis of data for evaluating spatial patterns and processes. Credit will not be given for both GEOG 5880 and GEOG 6880.

GEOG 6970 SEMINAR IN GEOGRAPHY (3) LEC. 3. Departmental approval. Development of modern geographic thinking with attention to applied research topics. Course may be repeated for a maximum of 6 credit hours.

GEOG 7930 DIRECTED STUDIES (1-3) IND/RES. Departmental approval. Individualized literature, field and/or laboratory research not available through regularly offered coursework. Subject matter and credit hours shall be determined by student and directing faculty. Course may be repeated for a maximum of 3 credit hours.

GEOG 7980 CAPSTONE RESEARCH (1-3) RES. SU. Departmental approval. enrolled as GEOG MS non-thesis student. Literature, field and/or laboratory research directed toward the completion of capstone project for non-thesis option. Course may be repeated for a maximum of 3 credit hours.

GEOG 7990 M.S. RESEARCH AND THESIS (1-10) RES. Research and Thesis. Course may be repeated with change in topics.