GEOGRAPHY (GEO)

GEO193. GEO Selected Topic. 1-12 Credits.
Selected topics courses are regularly scheduled courses that focus on a particular topic of interest. Descriptions are printed in the Schedule of Classes each semester. Selected topics courses may be used as elective credit and may be repeated for credit, provided that the topic of the course changes.

GEO201. Human Geography. 3 Credits.
An analysis of the distribution and character of interrelationships between humankind and the environment, including such topics as origin and dispersal of technology, livelihood patterns, and urbanization.

GEO202. Physical Geography. 3 Credits.
Selected aspects of the physical environment and their relationships to humankind. Emphasis on study of maps, weather, and regional climatology.

GEO203. People-Environments Geography. 3 Credits.
Ecosystem and social processes involved in people-environment relations in different places and times, emphasizing social justice. Natural and social science approaches to understand causes and consequence of human-induced environmental degradation so as to formulate solutions.

Restrictions:
• Must have the following level: Undergraduate

GEO211. World Geography. 3 Credits.
"World Geography" introduces students to the field of regional geography through the study of distinctive features of the world's regions and countries, as well as the interaction of diverse groups in the process of global integration. We will address a range of themes, including economic development, population growth, migration, resource use, environmental issues, geopolitical issues and urbanization. Both Western and non-Western (developed and developing) regions will be included.

GEO212. Cities of the World. 3 Credits.
Global urbanization patterns at the world-regions scale using concepts from urban, economic, political, cultural and environmental geography. Key concepts include site & situation, settlement history, urban morphology, urban functional regions, and contemporary urban challenges.

GEO213. Economic Geography. 3 Credits.
Geographical factors and interpretive theories related to patterns of population density, economic development, international trade, and economic production.

GEO214. Introduction to Urban and Regional Planning. 3 Credits.
Broad range of contemporary issues in urban/regional planning. Topics include the history of spatial planning, legal underpinnings, theories of urban development, and emerging issues facing practicing planners. Case studies from the U.S. and abroad will complement the theoretical content.

Restrictions:
• Must have the following level: Undergraduate

GEO231. Geography of Hazards. 3 Credits.
Explores hazardous physical processes in the atmosphere and lithosphere, both natural and human induced. Introduces spatial analysis of hazards, and the science of risk assessment.

GEO241. Spatial Statistics. 3 Credits.
Introduces the benefits and limitations of quantitative methods to analyze geographical problems. Covers traditional descriptive and inferential statistics but with a specifically spatial approach, including shape, point pattern and cluster analysis as well as spatial autocorrelation.

Prerequisites:
• Math Placement Level with a score of 3 or MAT 151 with a minimum grade of D- or MAT 120 with a minimum grade of D- or MAT 121 with a minimum grade of D-

GEO251. Current Issues in Latin American Geography. 3 Credits.
Introduction to selected geographic issues of Latin America such as migration, environmental impacts of agriculture and development, urban problems, and the roots of indigenous movements. Principles are introduced to help critically analyze problems and solutions.

GEO293. Geography Selected Topic. 3-12 Credits.
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GEO295. Indep Study Geography. 1-12 Credits.
GEO311. World Geography. 3 Credits.
Key concepts include planning theory, quantitative techniques employed by professional planners, infrastructure planning, decision-making at multiple scales (individuals and institutions), consideration of trade-offs in decision-making, and planning processes.

GEO314. Issues in Urban Planning. 3 Credits.
Content includes numerical techniques applied to various aspects of Urban Planning. Key concepts include Correlation/regression, urban transportation modeling, data collection principals, Fair Share (housing) calculations, economic analysis of development proposals, financial mechanisms, and Demographic Modeling.

Prerequisites:
• Math Placement Level with a score of 3 or (MAT 151 with a minimum grade of C- or MAT 120 with a minimum grade of C- or MAT 121 with a minimum grade of C-) or

GEO315. Quantitative Analysis in Urban Planning. 3 Credits.
Study of geographical distribution of soils and their relationship to ecosystems, with emphasis on the interconnections between social relations, human impact, and soil quality. Possible field trip (s).

Restrictions:
• Must have the following level: Undergraduate

GEO321. Geography of Soils. 3 Credits.
Study of geographical distribution of soils and their relationship to ecosystems, with emphasis on the interconnections between social relations, human impact, and soil quality. Possible field trip (s).

Restrictions:
• Must have the following level: Undergraduate
GE0331. Gender and Environment. 3 Credits.
The gendered nature of environment degradation; gender-sensitive theories and methodologies for the study of and solution to environmental problems.

GE0332. Geography, Health and Environment. 3 Credits.
Examination of the relationship between location, environmental conditions, and human well-being. The goal is a realistic view of the role of environment within a holistic concept of health.
Restrictions:
• Must have the following level: Undergraduate

GE0333. Advanced People-Environments Geography. 3 Credits.
Advanced level study of ecosystem and social processes involved in people-environment relations, emphasizing social justice. Theories and methods to understand causes and consequence of human-induced environmental degradation so as to formulate solutions. Field trip(s) may be required. Completion of introductory course and/or other coursework in ecology, earth science, or environmental science highly recommended.
Restrictions:
• Must have the following level: Undergraduate

GE0341. Introduction to Geographic Information Systems. 4 Credits.
An introductory overview of geographic information systems (GIS), a major technological innovation in the analysis and presentation of spatial data. Topics include theoretical and practical aspects of spatial data collection, storage, analysis, and display. Computer lab projects providing practical experience with popular GIS hardware and software are an essential part of this course.
Restrictions:
• Must have the following level: Undergraduate

GE0342. Cartography. 4 Credits.
History and principles of map-making, projections, scales, symbols, design, and mapping systems in relationship to effective presentation and communication of geographic data and analysis of spatial relationships. Computer applications are included. Lecture and laboratory.
Restrictions:
• Must have the following level: Undergraduate

GE0343. Remote Sensing. 4 Credits.
Principles, methods, techniques of remote sensing - including air photo interpretation and photogrammetry; their use in identification, analysis, and management of physical, cultural, and economic resources, application to geography and related physical and social sciences. Computer applications are included.
Prerequisites:
• GEO 273 with a minimum grade of D- or GEO 202 with a minimum grade of D- or GLG 201 with a minimum grade of D- or ANT 211 with a minimum grade of D-
Restrictions:
• Must have the following level: Undergraduate

GE0345. Understanding Latin America. 3 Credits.
Synthesis of the physical, cultural, and economic realities in Latin America.
Restrictions:
• Must have the following level: Undergraduate

GE0352. Geography Of Europe. 3 Credits.
Restrictions:
• Must have the following level: Undergraduate

GE0353. Understanding Latin America. 3 Credits.
Synthesis of the physical, cultural, and economic realities in Latin America.
Restrictions:
• Must have the following level: Undergraduate

GE0354. Geography of Asia. 3 Credits.
This course examines the physical and cultural geography of China, Japan, Korea and Vietnam. Using case studies, the course focuses on rural and urban landscapes, natural resource distributions, population dynamics, economic development, and natural disasters.
Restrictions:
• Must have the following level: Undergraduate

GE0355. "Emerging” China and Critical Geopolitics. 3 Credits.
In this course, we will explore China’s transition to a 'Socialist Market Economy' and what that means for China and the world. Our work throughout the course will be to investigate the significant processes and factors that drive China’s urban growth, economic reforms, environmental interventions, as well as its geopolitical positioning.

GE0372. GPS Practicum. 1 Credit.
Overview of the components and use of the global positioning system (GPS). Use of survey-grade receivers and post-processing software to collect and prepare digital spatial data for use in a geographic information system (GIS).
Prerequisites:
• GEO 383 (may be taken concurrently) with a minimum grade of D- or GEO 341 (may be taken concurrently) with a minimum grade of D-
Restrictions:
• Must have the following level: Undergraduate

GE0393. Geography Selected Topic. 3-12 Credits.
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Restrictions:
• Must have the following level: Undergraduate

GE0399. Modular Course. 0 Credits.
Restrictions:
• Must have the following level: Undergraduate

GE0351. Geography of the United States and Canada. 3 Credits.
Geographical patterns of the natural, economic, social and political features as they interrelate to form the regions of North America.
GEO411. Political Geography. 3 Credits.
Analysis of the causes and consequences of the geographical patterns of political phenomena, with emphasis on nations and states. General principles will be illustrated by case studies.
Prerequisites:
- GEO 240 with a minimum grade of D- or GEO 211 with a minimum grade of D- or GEO 207 with a minimum grade of D- or GEO 251 with a minimum grade of D- or GEO 213 with a minimum grade of D- or GEO 272 with a minimum grade of D- or GEO 203 with a minimum grade of D- or GEO 273 with a minimum grade of D- or GEO 202 with a minimum grade of D- or GEO 274 with a minimum grade of D- or GEO 201 with a minimum grade of D- or GEO 293 with a minimum grade of D- or GEO 201 with a minimum grade of D- or GEO 285 with a minimum grade of D- or GEO 231 with a minimum grade of D- or GEO 295 with a minimum grade of D- or GEO 301 with a minimum grade of D- or GEO 351 with a minimum grade of D- or GEO 303 with a minimum grade of D- or GEO 352 with a minimum grade of D- or GEO 307 with a minimum grade of D- or GEO 353 with a minimum grade of D- or GEO 308 with a minimum grade of D- or GEO 354 with a minimum grade of D- or GEO 310 with a minimum grade of D- or GEO 331 with a minimum grade of D- or GEO 330 with a minimum grade of D- or GEO 321 with a minimum grade of D- or GEO 381 with a minimum grade of D- or GEO 342 with a minimum grade of D- or GEO 382 with a minimum grade of D- or GEO 343 with a minimum grade of D- or GEO 383 with a minimum grade of D- or GEO 344 with a minimum grade of D- or GEO 372 with a minimum grade of D- or GEO 393 with a minimum grade of D- or GEO 406 with a minimum grade of D- or GEO 431 with a minimum grade of D- or GEO 400 with a minimum grade of D- or GEO 432 with a minimum grade of D- or GEO 401 with a minimum grade of D- or GEO 441 with a minimum grade of D- or GEO 493 with a minimum grade of D- or GEO 494 with a minimum grade of D- or GEO 495 with a minimum grade of D- or POL 227 with a minimum grade of D-.

GEO412. Geography of Socialism. 3 Credits.
Diverse origins and meanings of socialism in geographical context. Emphasis on social movements, perspectives, and struggles. Selections from Africa, the Americas, Asia, Europe, Oceania. Comparisons of contemporary and past socialist currents, including anarchists, communists/Marxist, feminist, eco-socialist.
Prerequisites:
- ENG 180 with a minimum grade of D- or ENG 170 with a minimum grade of D- or ENG 206 with a minimum grade of D- or ENG 207 with a minimum grade of D-.

GEO413. Geographic Information Systems Applications. 4 Credits.
An intermediate-level exploration of theoretical and practical issues arising in the use of typical geographic information systems (GIS) applications. Representative examples of a variety of GIS applications will be analyzed. Computer lab projects providing practical experience with popular GIS hardware and software are an essential part of this course.
Prerequisites:
- GEO 383 with a minimum grade of D- or GEO 341 with a minimum grade of D-.

GEO480. Internship in Geography (3, 6, or 9). 3-12 Credits.
Opportunity for students to gain experience related to the geography curriculum. Work as an intern in one of the agencies cooperating in this program. These governmental and private agencies are involved in planning and environmental concerns. Content of the course varies with the interest of the student and the nature and needs of the cooperating agency. Students must have a GPA of 2.75 or higher to take this course.

GEO481. Internship Seminar. 1 Credit.
Academic complement to GEO480. Interns and faculty meet to relate concepts of academic discipline to internship experience.

GEO482. Environmental Studies Senior Seminar. 1 Credit.
A capstone experience for Environmental Studies majors. An exploration into the application of biophysical and social science methods to an environmental problem linked to human impact.
Restrictions:
- Must have the following level: Undergraduate
- Must have the following field(s) of study (major, minor or concentration): Environmental Studies (ENV)

GEO493. Geography Selected Topic. 3-12 Credits.
Selected topics courses are regularly scheduled courses that focus on a particular topic of interest. Descriptions are printed in the Schedule of Classes each semester. Selected topics courses may be used as elective credit and may be repeated for credit, provided that the topic of the course changes.

GEO494. Fieldwork in Geography. 1-12 Credits.

GEO495. Independent Study in Geography. 1-12 Credits.