GEOGRAPHY (GEOG)

# Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

GEOG 401 - World Regions: Europe and the Americas
Credits: 4
Examines the rich diversity of human life in the following world regions: North America; Middle and South America; Europe; Russia and the post-Soviet states; and Oceania. We will examine the geography of these regions focusing on the following thematic concepts: Environment; Globalization and development; power and politics; urbanization; and population patterns. This course also serves as an introduction to geography.
Attributes: World Cultures(Discovery)
Equivalent(s): GEOG 401H
Grade Mode: Letter Grading

GEOG 402 - World Regions: Asia and Africa
Credits: 4
Examines the unique integration of human and physical phenomena that produces the distinctive character of the following world regions: the Middle East an North Africa; Sub-Saharan Africa; South Asia; Southeast and East Asia. The course also serves as an introduction to the discipline of geography, with its unique spatial perspective.
Attributes: World Cultures(Discovery)
Equivalent(s): GEOG 402H
Grade Mode: Letter Grading

GEOG 405 - There Is No Planet B
Credits: 4
Introduces human-environment relations as a central focus of geography, spanning social and environmental sciences. Considers mapping, natural resource use, commons and markets, hazards, political ecology, and land use change. Case studies link core concepts with examples from local to international scales.
Attributes: Environment,TechSociety(Disc)
Grade Mode: Letter Grading

GEOG 473 - Elements of Weather
Credits: 4
Basic principles of weather phenomena and the physical processes underlying these phenomena. Emphasis on weather patterns of New England. Lab.
Attributes: Discovery Lab Course; Physical Science(Discovery)
Grade Mode: Letter Grading

GEOG 500 - Making Change: Social and Environmental Justice in Practice
Credits: 4
Provides students with opportunities to consider a personal philosophy and professional action plan for social and/or environmental justice, bridging understandings of social equity and environmental conservation. Spanning theoretical and practical perspectives, students will learn basic community organizing and grantwriting skills that are useful in a range of careers, particularly in the non-profit and government sectors.
Grade Mode: Letter Grading

GEOG 530 - China: People, Politics and Economy
Credits: 4
This course examines China’s diverse physical environments, politics, economies, and cultures across vast territory. Students learn to adopt a relational and spatial perspective to study the contemporary issues in China.
Attributes: World Cultures(Discovery)
Equivalent(s): GEOG #530W
Grade Mode: Letter Grading

GEOG #530W - China: People, Politics and Economy
Credits: 4
This course examines China’s diverse physical environments, politics, economies, and cultures across vast territory. Students learn to adopt a relational and spatial perspective to study the contemporary issues in China.
Attributes: World Cultures(Discovery); Writing Intensive Course
Equivalent(s): GEOG 530
Grade Mode: Letter Grading

GEOG 540 - Geography of the Middle East
Credits: 4
Environmental, cultural, political-geographic, and ecological foundations of the Middle East. Selected regional problems and issues, e.g., geographical dimensions of the Arab-Israeli conflict, oil, urbanization, population growth, and nomadism.
Attributes: World Cultures(Discovery)
Grade Mode: Letter Grading

GEOG 550 - Sub-Saharan Africa: Environmental Politics and Development
Credits: 4
Explores the political ecologies of development in sub-Saharan Africa. Provides a historical and spatial perspective on sub-Saharan Africa’s environments and the politics that influence the region’s conservation and development choices. Students will critique conventional knowledge, ideas, and explanations to develop a deeper understanding of environment-development linkages in sub-Saharan Africa over time.
Attributes: World Cultures(Discovery)
Grade Mode: Letter Grading

GEOG 560 - Natural Hazards and Human Disasters
Credits: 4
A survey of natural hazards, including earthquakes, volcanoes, tsunami, floods drought, hurricanes and severe weather, and the human disasters they cause. The geography of community vulnerability to natural hazards and the factors that influence risk and recovery are also examined.
Attributes: Environment,TechSociety(Disc)
Grade Mode: Letter Grading

GEOG 565 - Designing Sustainable Places
Credits: 4
Introduces sustainable design of the built environment, including small towns, cities, suburbs, and rural areas. From neighborhood to regional scales, thoughtful place-making can link economic growth, justice, and environmental sustainability. Readings, discussions, writings, and hands-on field visits and design activities integrate human, environmental, and aesthetic perspectives to consider key challenges and identify a range of practical solutions.
Grade Mode: Letter Grading
GEOG 572 - Geography of the Natural Environment
Credits: 4
Provides an introduction to geography of the natural environment, including landforms, weather and climate, water resources, and biogeography. Examines the processes that shape the different elements of the environment and the relationships between them.
Attributes: Physical Science(Discovery)
Grade Mode: Letter Grading

GEOG 574 - Global Landscapes and Environmental Processes
Credits: 4
A survey of earth's major landforms and the geographic factors that influence their development, distribution, and morphology. Topics include mountain building, river systems, desert migration and expansion, glacial and periglacial environments, and shoreline evolution. Discusses interactions with human activities and climate change. Emphasizes how these processes interact to form surface features that are unique to their geographic environment.
Attributes: Physical Science(Discovery)
Grade Mode: Letter Grading

GEOG 570 - Human Geography
Credits: 4
Introduces human geography with an emphasis on social justice and environmental justice, integrating social and cultural aspects of space, place, and human-environment relations. Discusses urban, suburban, and rural examples in the US and internationally to illustrate basic geographic concepts.
Attributes: Social Science (Discovery); Inquiry (Discovery)
Grade Mode: Letter Grading

GEOG 581 - Society, Environment and Justice
Credits: 4
Introduces human geography with an emphasis on social justice and environmental justice, integrating social and cultural aspects of space, place, and human-environment relations. Discusses urban, suburban, and rural examples in the US and internationally to illustrate basic geographic concepts.
Attributes: Social Science (Discovery); Inquiry (Discovery)
Grade Mode: Letter Grading

GEOG 584 - Political Geography
Credits: 4
Interactions between geographic and political phenomena at the sub-national, national, and international levels. Emphasis on geographical aspects of current political problems within and between states. (Not offered every year.) Writing intensive.
Attributes: Writing Intensive Course
Grade Mode: Letter Grading

GEOG 582 - Global Trade and Local Development
Credits: 4
This course examines the ways in which global trade interacts with local development across the world. It studies the special organization of economic activities through basic approaches in economic geography. It also studies the history and contemporary state of international competition and collaboration.
Attributes: Social Science (Discovery)
Equivalent(s): GEOG 582W
Grade Mode: Letter Grading

GEOG 584 - Political Geography
Credits: 4
Interactions between geographic and political phenomena at the sub-national, national, and international levels. Emphasis on geographical aspects of current political problems within and between states. (Not offered every year.) Writing intensive.
Attributes: Writing Intensive Course
Grade Mode: Letter Grading

GEOG 582W - Global Trade and Local Development
Credits: 4
This course examines the ways in which global trade interacts with local development across the world. It studies the special organization of economic activities through basic approaches in economic geography. It also studies the history and contemporary state of international competition and collaboration. Writing intensive.
Attributes: Social Science (Discovery); Writing Intensive Course
Equivalent(s): GEOG 582
Grade Mode: Letter Grading

GEOG 658 - Introduction to Geographic Information Systems
Credits: 4
Introduces the use of geographic information systems (GIS) for natural resources and related fields. Data models/structures, map projections, data input/output/storage, data analysis/modeling, interpolation, and data quality/standards. Hands-on lab using ArcGIS software. Students are strongly encouraged to complete an introductory course in statistics before enrolling in course. Restricted to GEOG majors or permission. (Also offered as NR 658). Equivalent(s): NR 658
Grade Mode: Letter Grading

GEOG 670 - Climate and Society
Credits: 4
An introduction to climate science and the interaction between humans and climate. Examines the processes that control climate, the mechanisms that drive climate change, and the impact of climate change on society. Writing intensive.
Attributes: Writing Intensive Course
Equivalent(s): GEOG 570
Grade Mode: Letter Grading
GEOG 673 - Political Ecology
Credits: 4
Examines human-environment relations through the geographic subfield of political ecology, integrating social and biophysical sciences. Emphasizes cross-scalar relationships in resource decisions and community development, with substantial coverage of rural, non-US contexts. Seminar-style course with regular readings, writings and discussion. Writing intensive.
Attributes: Writing Intensive Course
Equivalent(s): GEOG 573
Grade Mode: Letter Grading

GEOG 685 - Population and Development
Credits: 4
A regional approach to the study of population geography with concern for the interaction between the focus of economic growth and the components of population change and development. Considers the environmental impact of developing trends in the developed and developing worlds and the relationship of these trends to sustainable growth and population patterns.
Attributes: Writing Intensive Course
Grade Mode: Letter Grading

GEOG #686 - World Economy and Globalization
Credits: 4
Emphasizes the spatial development of the world economy and the evolution into today's "globalized" economy. Topical emphasis includes the processes of global economic production changes, the role of transnational corporations, and the role of the state in globalization. Writing intensive.
Attributes: Writing Intensive Course
Grade Mode: Letter Grading

GEOG 695 - Internship
Credits: 1-4
Internships provide an opportunity for on-the-job skill development and practical experience in a closely supervised work setting. The student must provide a written proposal to a supervising faculty member before an internship program is approved. At the end of the semester, the student must make a presentation, provide work samples, or submit a detailed report, log, or portfolio describing the internship experience. Cr/F.
Repeat Rule: May be repeated for a maximum of 8 credits.
Grade Mode: Credit/Fail Grading

GEOG 759 - Digital Image Processing for Natural Resources
Credits: 4
Introduces digital remote sensing including multispectral scanners (Landsat and SPOT) radar, and thermal imagery. Hands-on image processing including filtering, image display, ratios, classification, registration, and accuracy assessment. GIS as it applies to image processing. Discussion of practical applications. Use of ERDAS image-processing software. Knowledge of PCs required. Prereq: GEOG 757 or equivalent and permission. (Also offered as NR 759).
Equivalent(s): NR 759
Grade Mode: Letter Grading

GEOG #760 - Geographic Information Systems in Natural Resources
Credits: 4
This course in geographic information systems (GIS), covers advanced theory, concepts, and applications of GIS for natural resource and related disciplines. Discussion of database structures, data sources, spatial data manipulation/analysis/modeling, data quality and assessment. Students conduct a project of their design exploring aspects of GIS most useful to them. Lecture emphasizes concepts and applications through a text and selected peer reviewed articles. Lab uses the latest version of ArcGIS software and provides hands on experience. Prereq: Introductory GIS course. Permission required. (Also listed as NR 760).
Equivalent(s): NR 760
Grade Mode: Letter Grading

GEOG 795 - Special Project
Credits: 2 or 4
Attributes: Writing Intensive Course
Grade Mode: Letter Grading