GEOGRAPHY (GEOG)

Geography, as the study of place, space and environment, addresses the "why of where" by uniting social and biophysical sciences, humanities and technology to examine the factors that make a place or environment unique. Connecting academic inquiry to real-world problem solving, our courses teach critical thinking skills that prepare students to transfer classroom and field experience into a wide range of careers. With interests ranging from globalization to climate change and sustainability, urbanization to community development at home and abroad, geography majors gain the knowledge, techniques and perspectives needed to meet current and future challenges.

Geography at UNH is an undergraduate-only department offering both major and minor degree programs. With small class sizes, personalized advising by department faculty, and opportunities for independent study, our students receive a high degree of individual attention. UNH geography graduates are prepared to enter a variety of careers or professional and graduate degree programs.

https://cola.unh.edu/geography

Programs

• Geography Major (B.A.) (http://catalog.unh.edu/undergraduate/liberal-arts/programs-study/geography/geography-major-ba)
• Geography Minor (http://catalog.unh.edu/undergraduate/liberal-arts/programs-study/geography/geography-minor)

Courses

GEOG 401 - Regional Geography of the Western World
Credits: 4
An introduction to the people, places, and problems of six Westernized regions of the world – Europe, Russia, Latin America, the Caribbean, North America, and Australia and Oceania. The course emphasizes five themes: environmental geography, population and settlement, cultural coherence and diversity, geopolitical framework, and economic and social development.

Attributes: World Cultures(Discovery)
Equivalent(s): GEOG 401H

GEOG 401H - Honors/Regional Geography of the Western World
Credits: 4
An introduction to the people, places, and problems of six Westernized regions of the world – Europe, Russia, Latin America, the Caribbean, North America, and Australia and Oceania. The course emphasizes five themes: environmental geography, population and settlement, cultural coherence and diversity, geopolitical framework, and economic and social development.

Attributes: World Cultures(Discovery)
Equivalent(s): GEOG 401

GEOG 402 - Regional Geography of the Non-Western World
Credits: 4
Major culture areas of the non-Western world and the unique interaction of human and physical phenomena that produces the distinctive character of these areas. Emphasizes the manner in which people of different cultures have made use of opportunities and solved problems existing in the major regions occupied by non-Western cultures: the Middle East and North Africa, Africa south of the Sahara, Oriental Asia and the Pacific Islands.

Attributes: World Cultures(Discovery)
Equivalent(s): GEOG 402H

GEOG 402H - Honors/Regional Geography of the Non-Western World
Credits: 4
Major culture areas of the non-Western world and the unique interaction of human and physical phenomena that produces the distinctive character of these areas. Emphasizes the manner in which people of different cultures have made use of opportunities and solved problems existing in the major regions occupied by non-Western cultures: the Middle East and North Africa, Africa south of the Sahara, Oriental Asia and the Pacific Islands.

Attributes: World Cultures(Discovery)
Equivalent(s): GEOG 402

GEOG 405 - Human-Environment Geography
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)

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)

GEOG 500 - Making Change: Environmental Justice Practicum
Credits: 4
Provides students with opportunities to link a personal philosophy and professional action plan for environmental justice, thereby bridging understandings of both social justice and environmental conservation. Spanning theoretical and practical perspectives, students will learn basic grant writing skills that are useful in a range of careers, particularly in the non-profit and government sectors.

GEOG #514 - Geography of the United States and Canada
Credits: 4
An introduction to the physical and human geography of the United States and Canada, including landforms, climate and biogeography, environmental issues, population and settlement, culture and identity, political geography, urban patterns, natural resources and economic development. Course content alternates between topics that are large in scope and scale, and others that are more narrowly focused.
GEOG #520 - Geography of Latin America and the Caribbean  
Credits: 4  
Utilizes regional and topical approaches to explore the physical, cultural, and historical geography of Latin America and the Caribbean. Particular aspects of the economy, politics, language, religion, and ethnicity is examined. The goal of the course is to lay a foundation for critical analysis of historical and contemporary concerns such as environmental issues, uneven development and poverty, social conflict and violence, and international relations.

GEOG 530 - Geography of China  
Credits: 4  
This course will examine China’s diverse physical environments, politics, economies, and cultures across her vast territory. Students will learn to adopt a relational and spatial perspective to study the contemporary issues in China.  
Attributes: World Cultures(Discovery)  
Equivalent(s): GEOG 530W

GEOG 530W - Geography of China  
Credits: 4  
This course will examine China’s diverse physical environments, politics, economies, and cultures across her vast territory. Students will learn to adopt a relational and spatial perspective to study the contemporary issues in China. Writing intensive.  
Attributes: World Cultures(Discovery); Writing Intensive Course  
Equivalent(s): GEOG 530

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)

GEOG 550 - Geography of Sub-Saharan Africa  
Credits: 4  
Overview of major physical features and human patterns, with an emphasis on the interaction between people and place and the dynamic issues and challenges facing contemporary African societies. Environmental and resource issues, historical impacts on development, culture and social characteristics, rural and urban organization, industrialization and trade, and prospects for the future.  
Attributes: World Cultures(Discovery)

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(Discovery)

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)

GEOG #573 - Biogeography  
Credits: 4  
Explores the introductory concepts of plant geography and biogeography, two interconnected disciplines that document and explain the changing distributions of plants and animals from both a spatial and temporal context. Gives equal emphasis to ecology (biomes, climates, soils), evolution (migration, speciation, dispersal), and applied biogeography and plant geography.  
Equivalent(s): EC 740, GEOG 673, GEOG 740

GEOG 574 - Global Geomorphology  
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. Emphasizes how these processes interact to form surface feature that are unique to their geographic environment.  
Attributes: Physical Science(Discovery)

GEOG 581 - Human Geography  
Credits: 4  
Differentiation of the world in terms of population, race, language, religion, political territory, and economic life. Collection and critical use of empirical data; emphasis on spatial and ecological analysis.  
Attributes: Social Science (Discovery); Inquiry (Discovery)

GEOG 581O - Human Geography  
Credits: 4  
Differentiation of the world in terms of population, race, language, religion, political territory, and economic life. Collection and critical use of empirical data; emphasis on spatial and ecological analysis.  
Attributes: Social Science (Discovery)

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)

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

GEOG #583 - Urban Geography  
Credits: 4  
Spatial structure of cities and the city system. Emphasizes the North American city and its problems: land use, transportation, political fragmentation, physical environment, and residential patterns. Trends in urbanization in the developed and developing worlds. Global cities. (Not offered every year.)
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

GEOG 590 - Field Research
Credits: 4
Explores a range of research methods, emphasizing collection and 
analysis of field data to understand human-environment dynamics 
and/or spatial relations. Topics include ethics, sample design, surveys, 
tours, participant observation, and qualitative and quantitative 
analyses. Students complete hands-on research activities.
Equivalent(s): GEOG 650

GEOG 591 - Making Maps
Credits: 4
Introduces how to make a map from start to finish, designed for students 
with no background in computer technology. Covers basic knowledge and 
skills in geographic information system, graphic design, and computer 
visualization. Walks students through some of the most popular 
applications for map making.

GEOG 595 - Statistics for Spatial Science
Credits: 4
Introduces elementary statistics to students of social sciences from a 
spatial perspective. It is designed to help students approach introductory-
level quantitative analysis using basic statistical problem-solving 
techniques with social and physical science data models. These 
elementary statistical tools and concepts will be explained during 
classroom lectures and proficiency obtained during practical exercises.

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

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

GEOG 671 - Weather Forecasting
Credits: 4
Examines in depth, the physical processes that govern the development 
and movement of weather systems. Topics include the relationship 
between surface and upper-level winds, vertical motion and pressure 
systems, storm development, and techniques used in weather 
forecasting.

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

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

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

GEOG #690 - Geography of Third World Development
Credits: 4
Explores the geography of development in the Third World (Africa, Asia, 
Latin America, and Oceania). Addresses factors that affect development 
spatially and temporally. Emphasis on geographic scale (local, national, 
regional, and global). Students write and present critical thinking papers 
that address the interactions of development factors at different scales.

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.

GEOG 757 - Remote Sensing of the Environment
Credits: 4
Practical and conceptual presentation of the use of remote sensing and 
other geospatial technologies for mapping the environment. The course 
begins with the use of aerial photographs (Photogrammetry and photo 
interpretation) and includes measures of photo scale and area, parallax 
and stereo viewing, object heights, flight planning, photo geometry, the 
electromagnetic spectrum, camera image analysis, global positioning 
systems (GPS), and geographic information systems (GIS). Conceptual 
lectures are augmented with practical homework assignments and 
hands-on lab exercises. Prereq: Algebra. Special fee. Lab. (Also offered as 
NR 757).
Equivalent(s): FOR 757, FORS 757, NR 757
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

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

GEOG 795 - Special Project
Credits: 2 or 4
Attributes: Writing Intensive Course

GEOG 796 - Special Topics
Credits: 4

GEOG 797 - Seminar
Credits: 2
Exploration of geography as a research discipline. Definition and investigation of research problems. Primarily for geography seniors.
Repeat Rule: May be repeated for a maximum of 4 credits.

GEOG 799 - Honors Thesis
Credits: 4
Independent research project conducted under supervision of a faculty sponsor culminating in a written thesis. Students must also make a public presentation of their thesis. Required for all honors students. Open only to geography majors who are part of the honors program. Before registering for the course, students must secure a faculty sponsor, obtain approval for a thesis topic, and complete an honors thesis student/sponsor agreement. Only open to Geography majors.

Faculty

https://cola.unh.edu/geography/faculty-staff-directory