DEPARTMENT OF GEOGRAPHY

http://www.uvm.edu/~geograph/

Students who are curious about why things happen where they do -- from climate change, water resource scarcity and forest migration to urban development, globalization, green buildings, wilderness therapy and the working agricultural landscape -- will find that Geography is the study that brings them all together. UVM’s Geography major equips students with analytical and conceptual skills, as well as an understanding of the spatial dimensions of physical, environmental, and human phenomena. Students develop a broad, international, interdisciplinary and comparative perspective, along with valuable technical skills.

Introductory offerings include courses on the geography of race and ethnicity, skills-based geospatial technologies, weather and climate, space and society, and world regional geography. Intermediate classes include global environmental change, political geography, water resources, cultural ecology, biogeography, geography and gender, climatology, international development and political ecology, urban geography, GIS and remote sensing, regional and field courses. At the advanced level, classes include spatial analysis, research methods, social geography, climate and hazards, global economic restructuring and snow hydrology. These offerings take students conceptually around the world, physically around Vermont and in some cases, include international field experiences.

MAJORS
GEOGRAPHY MAJOR
Geography B.A.

MINORS
GEOGRAPHY MINORS
Geography
Geospatial Technologies

Courses
GEOG 040. Weather, Climate & Landscapes. 0 or 3 Credits.
Introduction to the fundamentals of weather, climate, landform evolution, and plant distribution using a systems approach. Focus on variation in processes over space and time.

GEOG 050. D2:SU:World Regional Geog. 3 Credits.
Basic introduction to Geography by way of a regional approach to human and environmental topics.

GEOG 060. D1:Geography/Race&Ethnic in US. 3 Credits.
Examination of the ways in which spatial and locational processes shape and are shaped by ethnic and racial identities, struggles, and relationships.

GEOG 061. Geography of Vermont. 3 Credits.
Introduction to physical, social, historical, and economic geographies of Vermont. Focus on landscape change and environmental issues from a global perspective.

GEOG 070. SU: Space, Place and Society. 3 Credits.
An introduction to human geography: a spatial perspective on the study of population and migration, globalization, uneven economic development, geopolitics, cities and rural spaces, cultural meanings of place, and struggles for spatial justice.

GEOG 081. Geospatial Cncept&Visualization. 0 or 3 Credits.
Introduction to the quantitative and qualitative geospatial concepts and tools used in Cartography, Geographic Information Science (GISci), Remote Sensing, and geographic research. Data creation, analysis, and map design using existing digital map resources, topographic/satellite data, and alternative mapping methodologies.

GEOG 085. Introduction to Remote Sensing. 3 Credits.
Geographic analysis and evaluation of aerial imagery produced by remote sensors and its relationship to environmental problems in the social and physical sciences.

GEOG 090. International Field Studies. 3 Credits.
Field course abroad (e.g. South Africa or England). Intensive study of the geography of a country or region, with attention to related issues.

GEOG 091. Internship. 1-3 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

GEOG 092. Vermont Field Studies. 3 Credits.
Field course on a geographical theme (e.g. physical or regional geography) in the Burlington area or surrounding region. Cross-listed with: VS 092.

GEOG 095. Special Topics in Geography. 1-18 Credits.
See Schedule of Courses for specific titles.

GEOG 096. Special Topics in Geography. 1-18 Credits.
See Schedule of Courses for specific titles.

GEOG 099. First-Year Seminar. 3 Credits.

GEOG 140. Biogeography. 3 Credits.
Examines geographic distribution of organisms, emphasizing the biotic and abiotic factors that explain temporal and spatial patterns of species, population, and community distributions. Prerequisite: GEOG 040.

GEOG 143. Climatology. 3 Credits.
Analysis of regional and local climatic data with special reference to climatic controls; special laboratory projects. Prerequisite: GEOG 040.
GEOG 144. Geomorphology. 0 or 4 Credits.
Examines, using lectures, labs, and field-based independent study research projects, processes which change Earth’s surface and the history of landscape development. Considers fundamental geologic constraints on environmental problems. Prerequisite: GEOL 001 or GEOL 055.

GEOG 145. SU: Geography of Water. 3 Credits.
Examination of the spatial dimensions of water distribution from local to global scales, and the social, political, and economic dimensions of its use. Same as NR 102.

GEOG 148. Global Environmental Change. 3 Credits.
Explores changes in natural processes and anthropogenic activities that influence the atmosphere, hydrosphere, and biosphere individually and through interactions and feedbacks from a distinctly spatial perspective employed by physical geographers. Prerequisite: GEOG 040.

GEOG 150. D2: Geography of Africa. 3 Credits.
The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base. Prerequisite: GEOG 050 or GEOG 070.

GEOG 151. D2: Geography of India. 3 Credits.
Survey of India’s physical diversity, historical evolution, colonial and postcolonial legacies, and geopolitical situations, especially as they relate to globalization, migration, environment, and security. Prerequisite: GEOG 050 or GEOG 070.

GEOG 152. Canada. 3 Credits.
The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base. Prerequisite: GEOG 050 or GEOG 070.

GEOG 153. The Circumpolar Arctic. 3 Credits.
Examines the physical and human geography of the circumpolar Arctic. Prerequisite: GEOG 040 or GEOG 050.

GEOG 154. D2:SU: Geography of Development. 3 Credits.
Issues of global inequality, modernization and environmental degradation with a focus on colonialism, postcolonialism, and displacement of people, livelihoods, and cultures by development processes. Prerequisite: GEOG 050 or GEOG 070.

GEOG 156. D2: Latin America. 3 Credits.
The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base. Prerequisite: GEOG 050 or GEOG 070.

GEOG 157. Geography of the Pacific. 3 Credits.
Physical and human environments of Polynesia, Micronesia, and Melanesia. Focus on the impacts of colonialism, warfare, weapons testing, poverty, the tourism industry, and environmental change. Prerequisite: GEOG 070.

GEOG 158. Geography of the Middle East. 3 Credits.
Political, cultural, and physical geography of the Middle East, with an emphasis on the relationship between the Middle East and the West. Prerequisite: GEOG 050 or GEOG 070.

GEOG 159. Europe. 3 Credits.
The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

GEOG 160. The United States. 3 Credits.
The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base. Prerequisite: GEOG 050 or GEOG 070.

GEOG 163. D1: Race Geographies. 3 Credits.
Explores the links between race, racism, and geography, including issues of slavery, Jim Crow laws, gender, migration, housing, gangs, HIV/AIDS, urban development, and mass incarceration. Prerequisite: GEOG 060 or GEOG 070.

GEOG 170. Historical Geography. 3 Credits.
Examination of the tools, techniques, and perspectives used in studying the historic development of places and landscapes. Vermont and other North American case studies. Prerequisite: GEOG 050 or GEOG 070 or HST 012. Cross-listed with: HST 170.

GEOG 171. Cultural Geography. 3 Credits.
Distribution of race, ethnicity, language, and religion at different geographical scales and how these factors contribute to world and regional events. Prerequisite: GEOG 050 or GEOG 070.

GEOG 173. Political Ecology. 3 Credits.
Human-environment interactions under globalization. The politics of using particular ideas of ‘nature’ for the benefit of some and to the detriment of others in spaces from local backyards to global contexts. Environmental movements and livelihoods. Prerequisite: GEOG 040; GEOG 050 or GEOG 070. Cross-listed with: ENVS 143.

GEOG 174. Rural Geography. 3 Credits.
Global, national and local scale study of rural landscapes, cultures, social issues, and environmental concerns. Prerequisite: GEOG 050 or GEOG 070.

GEOG 175. Urban Geography. 3 Credits.
Analysis of the morphology, function and social structure of cities. Consideration of the nature, history and theories of urban growth and development. Prerequisite: GEOG 050 or GEOG 070.

GEOG 176. Geography of Global Economy. 3 Credits.
Distribution of global economic activity and power. Processes of uneven development and globalization including industrialization, the "global assembly line", trade, investment, and migration. Prerequisite: GEOG 070.
GEOG 177. Political Geography. 3 Credits.
Examines the relationships between nation states and political identity. Other political-spatial constructs are also examined, including the private and public dichotomy, cyberspace, and borders. Prerequisite: GEOG 050 or GEOG 070 or POLS 051 or POLS 071. Cross-listed with: POLS 161.

GEOG 178. Gender, Space & Environment. 3 Credits.
Examination of the ways in which human relationships to both the built and the natural environment are mediated by gender. Prerequisite: Six hours in Geography or Gender, Sexuality, & Women's Studies. Cross-listed with: GSWS 170.

GEOG 179. Cultural Ecology. 3 Credits.
Interrelationships of social groups and their natural environments and resource bases, with primary emphasis on nonindustrial cultures, examined from the perspectives of anthropology and geography. Prerequisite: GEOG 050 or GEOG 070. Cross-listed with: ANTH 179.

GEOG 184. Geog Info:Cncpts & Applic. 0 or 3 Credits.
Systematic approach to important geographical concepts (including distance, shape, scale dispersion) structured around the use of Geographical Information Systems (GIS) as an analytical tool. Prerequisite: GEOG 081 or NR 025.

GEOG 185. Remote Sensing. 0 or 3 Credits.
Examinations of the earth’s surface from aerial photographs and satellite imagery. Emphasis is on image interpretation, classification, change detection, multivariate analysis (e.g. principal components analysis). Prerequisite: GEOG 081 or NR 025. Cross-listed with: FOR 146, NR 146.

GEOG 186. Qualitative Research in Geog. 3 Credits.
Students will learn data collection, analysis, and representation techniques for qualitative data with emphasis on geographic practices, such as participatory mapping and mixed-methods approaches. Prerequisite: GEOG 081.

GEOG 190. International Field Studies. 3 Credits.
Field course abroad (e.g. South Africa or England.) Intensive study of the geography of a country or region, with attention to related issues. Prerequisite: Three hours in Geography.

GEOG 191. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion. Prerequisite: Minimum Junior standing.

GEOG 192. Vermont Field Studies. 3 Credits.
Field course on a geographical theme (e.g. physical or regional geography) in the Burlington area or surrounding region. Prerequisite: GEOG 040, GEOG 050, GEOG 061, GEOG 070, or VS 052. Cross-listed with: VS 192.

GEOG 195. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

GEOG 196. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

GEOG 197. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

GEOG 198. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

GEOG 199. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

GEOG 200. Research Methods. 3 Credits.
A systematic overview of the art and science of geographical inquiry. Examination of key research and methodological approaches in the discipline. Prerequisite: Minimum Junior standing.

GEOG 201. Contemp Geog Thought Context. 3 Credits.
A survey of paradigms and issues in contemporary geography. Attention paid to the social and historical contexts of geographic thought. Prerequisite: Minimum Junior standing.

GEOG 244. Adv Top: Global Change. 3 Credits.
Advanced offerings on topics related to past, present and future changes in the environment, including natural and human-induced changes in the atmosphere, hydrosphere and biosphere. Prerequisite: Vary with course content; Minimum Junior standing.

GEOG 245. Adv Top: Human Env Interactions. 3 Credits.
Advanced offerings on various manifestations of social-environmental relationships. Possible topics include sustainable development, environmental justice, and urban ecology. Prerequisites: Vary with course content; Minimum Junior standing.

GEOG 246. Adv Top: Climate Water Resource. 3 Credits.
Analysis of regional climatology, paleoclimatology, hydroclimatological hazards, or fluvial geomorphology. Topics include droughts, severe weather, climate change, floods and floodplain management, mountain and lowland rivers. Prerequisites: Vary with course content; minimum Junior standing.

GEOG 272. Adv Top: Space, Power, Identity. 3 Credits.
Advanced offerings on topics related to the spatial regulation and geographic construction of social identity, paying particular attention to race, gender, and sexuality. Prerequisites: Vary with course content; minimum Junior standing.

GEOG 273. Adv Top: Political Econ Ecology. 3 Credits.
Advanced offerings in political ecology and political economy, particularly at global and regional scales. Possible topics include Third World economic restructuring, globalization, international environmental movements. Prerequisites: Vary with course content; minimum Junior standing.
GEOG 274. Adv Top: Critical Urban & Soc Geo. 3 Credits.
Advanced offerings in urban and critical social geography. Possible topics include social justice and the city, human rights, geographies of social control. Prerequisites: Vary with course content; minimum Junior standing.

GEOG 281. Adv Topic: GIS & Remote Sensing. 3 Credits.
Advanced offerings in GIS or remote sensing focusing on landscape interpretation for decision-making practices. Incorporation of applications from Vermont public and private sectors. Prerequisites: Vary with course content; minimum Junior standing.

GEOG 287. Spatial Analysis. 3 Credits.
Analysis of spatial pattern and interaction through quantitative models; introduction to measurement, sampling, and covariation in a spatial framework. Prerequisite: Minimum Junior standing.

GEOG 291. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

GEOG 295. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

GEOG 296. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

GEOG 297. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

GEOG 298. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

GEOG 299. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.