DEPARTMENT OF GEOGRAPHY

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

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 “geotechniques,” weather and climate, space and society, and world regional geography. Intermediate classes include political geography, water resources, cultural ecology, biogeography, geography and gender, climatology, international development and political ecology, urban geography, GIS and remote sensing, and regional courses. At the advanced level, classes include spatial analysis, research methods, social geography, climate and hazards, and global economic restructuring. These offerings take students conceptually around the world, and some include international field experiences.

MAJORS

GEOGRAPHY MAJOR
Geography B.A.

MINORS

GEOGRAPHY MINORS
Geography
Geospatial Technologies

Courses

GEOG 040. Weather, Climate & Landscapes. 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: World Regional Geography. 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. Space, Place and Society. 3 Credits.
An introduction to human geography, the study of space and spatial arrangement, the construction of place and experience, and struggles for spatial justice.

GEOG 081. Geotechniques. 0 or 3 Credits.
Introduction to cartography, geographic information systems (GIS), and remote sensing. Map design and analysis using topographic/satellite data, air photo interpretation, digitizing, and Internet resources.

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 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. Pre/co-requisite: 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 or Instructor permission.

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. Pre/co-requisite: GEOL 001 or GEOL 055.

GEOG 145. 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 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. Pre/co-requisite: 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. Prerequisites: GEOG 050 or GEOG 070 or Instructor permission.
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. Pre/co-requisite: 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: 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. Prerequisites: GEOG 050 or GEOG 070 or Instructor permission.

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. Pre/co-requisite: 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. Pre/co-requisite: 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. Pre/co-requisites: 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. Pre/co-requisite: GEOG 050 or GEOG 070.

GEOG 170. Historical Geography. 3 Credits.
Cross-listed with: HST 170. Examination of the tools, techniques, and perspectives used in studying the historic development of places and landscapes. Vermont and other North American case studies. Prerequisites: GEOG 050 or GEOG 070 recommended, HST 011 or HST 012 or Instructor permission.

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. Pre/co-requisites: GEOG 050 or GEOG 070 or Instructor permission.

GEOG 172. Historical Geography. 3 Credits.
Human-environment interactions under globalization. Social and economic causes of global and local environmental problems. Environmental movements and sustainable livelihoods in First and Third Worlds. Pre/co-requisites: GEOG 050 or GEOG 070 or Instructor permission. Cross-listed with: ENVS 143.

GEOG 173. Political Ecology. 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. Pre/co-requisite: GEOG 050 or GEOG 070 or POLS 071 or Instructor permission. Cross-listed with: POLS 161.

GEOG 174. Rural Geography. 3 Credits.
Examination of the ways in which human relationships to both the built and the natural environment are mediated by gender. Prerequisites: Six Prerequisite: GEOG 060 or GEOG 070. Cross-listed with: GSWS 170.

GEOG 175. Urban Geography. 3 Credits.
Consideration of the nature, history and theories of urban growth and development. Pre/co-requisites: GEOG 050 or GEOG 070 or Instructor permission.

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. Pre/co-requisite: GEOG 070.

GEOG 177. Political Geography. 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 recommended. 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. Prerequisites: GEOG 081 or Instructor permission.

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. Geography Internship. 1-6 Credits.
Supervised internship in applied geography working with a local public agency or private firm. Individually arranged. Prerequisite: Junior/Senior standing; department permission.

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: Three hours in Geography. 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. Readings & Research. 1-6 Credits.

GEOG 198. Readings & Research. 1-6 Credits.

GEOG 202. 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: Junior/Senior standing; nine hours in Geography.

GEOG 203. 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: Nine hours in Geography or Instructor permission.

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. Prerequisites: GEOG 040, GEOG 140 or GEOG 143, or Instructor permission.

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. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

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: GEOG 143 or GEOG 144 and Senior or Graduate standing with nine hours in Geography.

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. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

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. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

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. Prerequisite: Senior/Graduate standing with nine hours in Geography, or Instructor permission.

GEOG 281. Adv Top: 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: Senior or Graduate standing with nine hours in Geography; or Instructor permission.

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. Prerequisites: Senior/Graduate standing with at least nine hours in Geography or Instructor permission.

GEOG 289. 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. Readings & Research. 1-6 Credits.

GEOG 298. Readings & Research. 1-6 Credits.