GEOGRAPHY (GEOG)

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 173. Political Ecology. 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 174. Rural Geography. 3 Credits.
Global, national and local scale study of rural landscapes, cultures, social issues, and environmental concerns. Pre/co-requisites: GEOG 050 or GEOG 070, or Instructor permission.

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. 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.
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 051 or POLS 071 or Instructor permission. 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. Prerequisites: Six Prerequisite: GEOG 060 or GEOG 070. 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. Pre/co-requisite: GEOG 050 or GEOG 070 or Instructor permission. Cross-listed with: ANTH 179.

GEOG 184. Geog Info:Cncpts & Applic. 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. Pre/co-requisite: GEOG 081 or NR 025 or equivalent.

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 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. Pre/co-requisites: 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 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: 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.