

GEOGRAPHY (GEO)

GEO 100 World Geography Credits: 3

Typically Offered: Fall, Spring.

Course Description: A systematic and regional analysis of the world's diverse cultural realms emphasizing the five themes of geography (location, place, interaction of people and the physical environment, movement, and region).

CORE 42: MOTR GEOG 101; World Regional Geography (attribute MO11)



GEO 160 Physical Geography Credits: 4

Typically Offered: Fall, Spring.

Course Description: Analysis of Earth's physical systems, Earth-Sun relationships, weather and climate, soils and landforms, fluvial processes, global vegetation, exercises involving data collection, aerial photography and map interpretation, and data analysis. Three hours lecture and two hours lab.

CORE 42: MOTR GEOG 100L; Physical Geography with Lab (attributes MO34, MLAB)



GEO 210 Geography of the United States and Canada Credits: 3

Typically Offered: Departmental Discretion.

Course Description: A systematic and regional analysis of the contemporary physical, cultural, and economic geography of the United States and Canada. Examination of environmental influences on people and the ways people change the environment as evidenced in agriculture, religion, industry, and urban areas.

GEO 310 Geography of Asia Credits: 3

Typically Offered: Departmental Discretion.

Course Description: A systematic and regional analysis of the contemporary physical, cultural, historical, and economic geography of Asia. Regional analysis will be selected from topics in Central, East, South, Southeast, and Southwest Asia, as well as Oceania and Antarctica.

GEO 320 Geography of Europe Credits: 3

Typically Offered: Departmental Discretion.

Course Description: A systematic and regional analysis of the contemporary physical, cultural, and economic geography of the nations and regions west of Russia; trends of development as affected by changing political structures and the European Union. **Prerequisite(s):** A course in geography or European history.

GEO 340 Sustainable Energy Credits: 3

Typically Offered: Departmental Discretion.

Course Description: Basic concepts of development and sustainability as they relate to energy usage. Implications on human population, weather and climate, global climate change, and agriculture will be discussed. Course will focus on energy conservation, fossil fuel energies, and alternative energy strategies, including, but not limited to, solar, wind, water, nuclear, geothermal, and biofuels. Class is in both lecture and seminar format. **Prerequisite(s):** A course in geography or BIO 207, or departmental approval.

GEO 426 Geographic Information Systems Credits: 4

Typically Offered: Departmental Discretion.

Course Description: Basic concepts of Geographic Information Systems and applications; raster and vector data models; exercises involving data collection, GPS usage, database management, editing databases and shapefiles, querying and analyzing data, and cartographic design using ArcGIS and Google software. Three hours lecture and two hours lab.

Prerequisite(s): Junior standing or departmental approval.

GEO 430 Globalization, Labor, and Resources Credits: 3

Typically Offered: Departmental Discretion.

Course Description: Patterns of distribution, production, and consumption of the world's resources; theories of geographic location related to agricultural, industrial, and service activities; globalization and internationalization; population and migration impacts on the economy; the role of the state in the economy; theories of development and underdevelopment. **Prerequisite(s):** ECO 260 or GEO 100.

GEO 450 Independent Research/Project Credits: 1-6

Typically Offered: Fall, Spring.

Course Description: Investigation of a research problem, project, or topic on an individual conference basis. May be repeated for credit with departmental approval. **Prerequisite(s):** Departmental approval.

GEO 490 Geography Internship Credits: 1-12

Typically Offered: Fall, Spring, Summer.

Course Description: Students arrange an internship with a suitable government agency or employer engaged in geographic activities, subject to the approval of the Department of Biology via its geography faculty. The field work will provide first-hand applied learning experience and career-related skills using knowledge learned in geography classes. These skills include, but are not limited to: GIS, GPS, planning, critical thinking, writing, and public speaking. Internships must be arranged and approved by the department in the semester preceding the internship. For more details contact the Coordinator of the Internship Practicum in the Department of Biology. May be taken for up to 12 credit hours.

Prerequisite(s): Departmental approval.