

# GEOGRAPHY (GEO) - ROCK COUNTY

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## Courses

### **GEO 101 Introduction to Cultural Geography 3 Units**

A Surv. of world patterns of culture, such as population, language, religion, urban & rural settlement, & their causal relationships, emphasizing the global diversity of world cultures, contrasting world views & the issues thus raised.

### **GEO 102 Roots and Diversity 3 Units**

The Geo. of American ethnic minority groups. An Intro to ethnic Geo. that examines the experience of people of African, Asian, Hispanic, & Native heritage in the U.S. & Canada. These ethnic minorities are studied using the major themes of cultural Geo. such as spatial distribution, migration patterns & locational patterns.

### **GEO 104 Landscapes of North America 3 Units**

(GEO 104 & GLG 104 are the same) A general Surv. of the characteristics & origins of major natural/physical regions of North America, with emphasis on national parks & monuments & other public areas. Field trip(s) may be required

### **GEO 106 Introduction to Geographic Information Sciences 4 Units**

An Intro to methods for organizing & interpreting spatial Info using state-of-the-art techniques & tools of geographic Info Sci.s. These include remote sensing, computer cartography, global positioning systems (GPS) & spatial analysis. H&s-on experiences provide a foundation for higher level courses & applications across the disciplines, e.g. Anthropolgy, Soc., planning, history, as well as Geo., geology, & climatology

### **GEO 107 Introduction to Maps and Air Photos 4 Units**

(GEO 107 & GLG 107 are the same course.) The use & interpretation of aerial photos & other forms of remote sensing & the basics of map reading, analysis & interpretation including a brief Intro to the principles of map design & construction. Emphasis on topographic & thematic maps & air photos

### **GEO 110 World Regional Geography 3 Units**

Intro to cultural Geo. through the study of representative & significant world regions. Examples will compare & contrast present & potential ethnic, social, political, & Env.al problems across select regions of the world, & explore basic solutions.

### **GEO 115 Economic Geography 3 Units**

Analysis of location of population & the distribution & character of leading global economic activities: agriculture, fishing, forestry, mining, manufacturing, transportation, & trade. Field trip(s) may be required.

### **GEO 120 Introduction to Physical Geography 3 Units**

The Geo. of Earth's physical characteristics, including weather & climate, climate types, water, soils, Earth materials, l&forms, & Earth resources; study of the processes & interactions creating Earth's physical geographic patterns. May not be taken for credit by students who have had GEO 125, GEO 123 or GEO 124.

### **GEO 123 Physical Geography: Weather and Climate 3 Units**

Study of earth's atmospheric elements in both the short term (weather events) & long term (climate & climate change). Subjects include temperature, the seasons, pressure, wind & wind systems, humidity, cloud cover, stability & precipitation, jetstreams, cyclones & fronts, tornadoes & hurricanes. Study of the world's different climate regions, soils & vegetation; climate change (Greenhouse Effect, Ice Ages); & human interaction with weather & climate. Two or four hours of lab per week depending on the credit. Field trip(s) may be required. May not be taken for credit by students who have had GEO 120 or GEO 125

### **GEO 124 Physical Geography: Landforms 4-5 Units**

Study of the evolution & distribution of Earth's surface features (l&forms) & physical l&scapes along with the processes shaping them. Study covers plate tectonics, volcanoes, faults, rivers & river flow, glaciers, beaches, dunes, l&slides, etc. Two or four hours of lab per week depending on the credit. Field trip(s) may be required. May not be taken for credit by students who have had GEO 120 or GEO 125.

### **GEO 125 Physical Geography 4-5 Units**

The Geo. of Earth's physical characteristics, including weather & climate, climate types, water, soils, Earth materials, l&forms, & Earth resources; study of the processes & interactions creating Earth's physical geographic patterns. Two or four hours of lab per week depending on the credit. Field trip(s) may be required. May not be taken for credit by students who have had GEO 120, GEO 123 or GEO 124.

### **GEO 130 Human Impact on the Environment 3 Units**

A natural Sci. course describing the alteration of the physical Env. with the resulting effects on air, water, soils, vegetation, animal life & humans. Field trip(s) may be required. Geo 130 meets DPI requirements for Env.al education at some UW baccalaureate institutions.

### **GEO 170 Disasters-Living on the Edge 3 Units**

A natural Sci. course describing the alteration of the physical Env. with the resulting effects on air, water, soils, vegetation, animal life & humans. Field trip(s) may be required. Geo 130 meets DPI requirements for Env.al education at some UW baccalaureate institutions.

### **GEO 200 Historical Geography of the American Frontier 4 Units**

(Same as GLG 170) Study of various Env.al hazards, their causes, impacts on humans, & mitigations. Core topics are natural hazards (earthquakes, volcanoes, flooding, l&slides, tornadoes, hurricanes), & anthropogenic hazards (climate change/global warming, nuclear hazards, & overpopulation). Additional topics may be covered: coastal hazards, pollution of groundwater, air, soil, & water, other atmospheric hazards (extreme weather, droughts), impacts from space, extinctions, biohazards, chemical hazards, & terrorism

### **GEO 270 Global Climate Change: Past, Present, and Future 3 Units**

This course will examine contemporary scientific thought on the cycles of climate change, underst&ing of past climate conditions, the current state of the atmosphere, & predictions for future change & adaptation strategies. Close emphasis will be placed on evidence for climate change through cultural evidence for change (journals, historical documents) as well as physical evidence & proxies (tree rings, fossils, ice cores, sediments). Past periods of climate change will be analyzed in order to underst& how life was affected during those events as well as to set the context to better underst& scientific though on current & future climate trends

**GEO 277 Geography of World Energy 3 Units**

A geographically-based overview of non-renewable & renewable energy on a global scale. Human innovations that may provide opportunities for a more sustainable energy future are emphasized. Socioeconomic & Env.al implications of its recovery, distribution, & use are explored for each type of energy resource. Prereq: One Sem. of college work.

**GEO 291 Geographic Field Study 1-6 Units**

Classroom study of an area of geographic interest followed by field study of the area. May be taken for credit more than once if topics are different. Cons. instr.

PREREQ: CONSENT OF INSTRUCTOR

**GEO 294 Internship in Geography 1-3 Units**

An internship designed to provide students with opportunities to apply knowledge & skills learned in Geo. courses to professional situations & to gain experience working in a Geo.-related institution (planning office, department of natural resources, mapping service, state & county soil office, etc.). The internship is intended for advanced students with prior Geo. coursework. Students will work under the supervision of a faculty member & receive credit based on hours employed & completion of a final report summarizing how their experiences reflect classroom learning & how they will apply their experience in future work. Repeatable for a maximum of six credits.

**GEO 297 Special Topics in Geography 1-3 Units**

Designed to cover topics not ordinarily covered in existing courses, or that cannot be accommodated in existing course formats. The topics selected in this course will depend on competencies of available staff & will be announced in the course timetable. May be taken more than once for credit if topics are different.

PREREQ: CONSENT OF INSTRUCTOR

**GEO 299 Independent Study 1-3 Units**

Individual study under the supervision of an instructor. May be taken more than once for credit if topics are different.

PREREQ: CONSENT OF INSTRUCTOR

**GEO 300 Population: World Survey 3-4 Units**

Contrasts in numbers, densities, & qualities of population with emphasis on regional implication.

**GEO 341 The United States and Canada 3 Units**

Description & analysis of the physical & cultural l&scapes of the U.S. & Canada.

PREREQ: ONE SEMESTER OF COLLEGE WORK

**GEO 342 Geography of Wisconsin 3 Units**

The Geo. of Wisconsin's natural & cultural l&scapes with an emphasis on their sequential development & changing patterns of l& use & settlement. Natural resources, population, l& utilization, & economic development of the state. Field trip(s) maybe required.

PREREQ: ONE SEMESTER OF COLLEGE WORK

**GEO 349 Northwestern Europe 3 Units**

Description & analysis of the physical & cultural l&scapes of NorthWest Europe. Includes the British Isles, Sc&inavian countries, Low countries, France, Germany, Switzerl&, & Austria.

PREREQ: ONE SEMESTER OF COLLEGE WORK

**GEO 350 Environmental Conservation 3 Units**

Study of the human use, conservation, & Mgmt. of the Earth's resources; ecosystems; human interactions with the Env.; human population growth; impact of technology on the Env.; & practical solutions to Env.al problems. Field trip(s) may be required. GEO 350 meets DPI requirements for Env.al education at some UW baccalaureate institutions.

PREREQ: ONE SEMESTER OF COLLEGE WORK