

Geography and Geology Courses

(GEOGRPY, GEOLGY)

Contact:

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SPECIALIZED COURSES

GEOGRPY 577

Remote Sensing of the Environment 3 u

An introduction to the images, sensors and techniques used to gather and process data on the Earth and the other planets, including aerial photography, electro-optical scanners and radar systems. The course will focus on the fundamentals of utilizing remotely sensed data in studying both natural and human induced processes impacting the Earth's surface. Computer applications will be extensively utilized. Field trips are normally taken.

Prereq: GEOGRPY 320 or GEOGRPY 310 or consent of instructor.

GEOGRPY 620

Human And Climate Interactions 3 u

The course objective is to distinguish between natural climate change and change induced by human activities. Topics covered include human modifications to cloud cover, global warming, and ozone problems. Another emphasis is to better understand the impacts of severe weather on human activities and the potential threats of future climate change. At least one field trip is usually taken.

Prereq: GEOGRPY 320/520 or an equivalent course or consent of instructor.

GEOGRPY 630

Geography Of Race & Ethnicity In The United States 3 u

The course will take a geographical approach to the study of ethnic groups in the United States. Native American, African American, Hispanic American, and Asian American groups will be studied systematically. Major topics will include mobility, cultural regions, and the cultural landscape created by the various ethnic groups.

Prereq: GEOGRPY 230 or GEOGRPY 261 or GEOGRPY 344.

GEOGRPY 635

Forest Geography 3 u

This course introduces the field of forest geography, emphasizing the quantitative description of spatial and temporal patterns of forest change at multiple scales. Both natural and human forest processes are

considered as well as the interaction between humans and forested environments. Theories and methods will be used to understand forest processes, using examples from around the world.

Prereq: GEOGRPY 210 or GEOGRPY 330 or BIOLOGY 144 or consent of instructor.

Unreq: Biology 257

GEOGRPY 660

Applied GIS in Physical Geography 3 u

The course focuses on the use of GIS to better understand the physical processes shaping the earth's surface and characteristics of the atmosphere. Because physical geography covers such a broad range of topics, it will be necessary to review the physical processes associated with each (e.g. landform formation, biogeography, patterns of severe weather, etc.) before applying GIS. Thus, the course combines traditional lecture style format with weekly meetings in departmental computer labs equipped with the latest GIS software. Grading is heavily based on completion of labs on time and quality of analysis of GIS outputs.

Prereq: GEOGRPY 210 or GEOGRPY 370

GEOGRPY 670

Applied Environmental and Natural Resources GIS 3 u

This course will provide the knowledge and skills necessary to utilize GIS for solving applied environmental analysis problems. Specifically, the course is designed to 1) identify and resolve environmental and natural resource problems in terms of spatial analysis, 2) explore a conceptual understanding of GIS, 3) provide students with technical instruction in current GIS software.

Prereq: GEOGRPY 270 and GEOGRPY 370 or consent of the instructor.

GEOGRPY 690

Workshop 1-8 u

GEOGRPY 691

Travel Study 1-3 u

GEOGRPY 694

Seminar 1-3 u

GEOGRPY 696

Special Studies 1-3 u

Repeatable once for a maximum of 6 credits.

GEOGRPY 790

Workshop 1-6 u

GEOGRPY 794

Seminar 1-3 u

GEOGRPY 798

Individual Studies 1-3 u

GEOGRPY 799

Thesis Research 1-6 u

Students must complete a Thesis Proposal Form in the Graduate Studies Office before registering for this course.

GEOLOGY COURSES (GEOLGY)

GEOLGY 690

Workshop 1-3 u

Repeatable

Prereq: Consent of instructor

GEOLGY 694

Seminar 1-3 u

GEOLGY 696

Special Studies 1-3 u

Repeatable

Prereq: Consent of instructor