

COURSES IN GEOGRAPHY

GEOG 1101 Introduction to Human Geography 3 hours

A study of fundamental concepts in human geography, including spatial interaction, population dynamics, human-environment interaction, culture, interpreting landscapes, economic development, and political geography. The course also addresses locations and attributes of elements of our world, and introduces certain computer-assisted data manipulation skills. This course may be used to fulfill the elective requirements of Core Area E.

GEOG 1111K Introduction to Physical Geography 4 hours

A study of the natural systems that shape our physical environment and the resultant spatial patterns discernable on Earth's surface. The course explores atmospheric processes, and the distribution of soils and life forms, land-forming and modification processes, and the distribution and characteristics of certain recognized landform types. The laboratory includes practical experience in making observations, performing measurements and calculations, interpreting physical phenomena, drawing conclusions, and reporting the results of these activities all related to the natural systems that shape our physical environment and the resultant spatial patterns discernable on Earth's surface. This course may be used to fulfill part of the non-science-major requirement in Core Area D.

GEOG 3563 Introduction to Remote Sensing 3 hours

Prerequisite: GEOG 1101 or GEOG 1111 or permission of the instructor. An introduction to the principles, equipment, technique, and applications of remote sensing, including film and aerial photography, satellite imagery, and radar. Course emphasis will be adjusted to students' interests but will include applications in image interpretation, land use/land cover classification, and photogrammetry.

GEOG 4370 Introduction to Geographic Information Systems 3 hours

Prerequisites: GEOG 1101 or GEOG 1111; or permission of the instructor. Students should not attempt this course unless they are familiar with spreadsheets. This course explores the basic concepts of spatially referenced data and how these data are requested in, manipulated by, and presented with geographic information systems (GIS). Topics include the nature and accuracy of spatially referenced data, map projections, coordinate systems, map reference systems, raster/vector data representation, as well as methods of data capture, storage, retrieval, visualization, modeling, and output using one or more PC-based GIS software packages.

GEOG 4910 Introduction to Research Methods 1 hour

Prerequisite: permission of the instructor. This course will comprise directed independent study by advanced students of a geographic topic not available in regular courses. Topics will be selected on the basis of shared student - faculty

interests and the availability of the instructor to direct the study. May be taken 4 times for a total of 4 credits.

GEOG 4920 Introduction to Research Methods 2 hours
May be taken 3 times for a total of 6 credits.

GEOG 4930 Introduction to Research Methods 3 hours
May be taken 2 times for a total of 6 credits.