

Department of Environmental Studies

Minor in Geographic Information Systems



Electives (Choose 2):

BIO 446 Restoration Ecology (4 hrs.) BIO
 447 Global Change Ecology (4 hrs.) BIO
 462 Conservation Biology (4 hrs.)
 CSC 225 Computer Programming
 Concepts I (3 hrs.)
 CSC 302 Discrete Structures (4 hrs.) CSC
 318 Computer Literacy (4 hrs.)
 MAT 421 Statistical Methods (4 hrs.)
 MAT 442 Probability Modeling and
 Computer Simulation (4 hrs.)
 MAT 444 Operations Research Methods
 (4 hrs.)
 MIS 352 Principles of Management
 Information Systems (3 hrs.)
 MIS 385 Data and Information
 Management (3 hrs.)
 MPH 222 Global Public Health:
 Population, Poverty and Pollution (3
 hrs.)
 MPH 224 Epidemiology – Science of
 Disease Discovery (3 hrs.)
 MPH 471 Emerging Diseases (3 or 4 hrs.)

A geographic information system, (GIS) has become an integral aspect for supporting decision-making in a variety of fields, such as environmental sciences, urban planning/management/policy, political science, civil engineering, business, education administration, real estate, and health care. With its diverse capabilities, the need for GIS in the workplace has increased over the years. As a result, competency in GIS will provide UIS students additional future career opportunities and enhance their present positions.

The purpose of the minor is to give students the opportunity to gain valuable GIS knowledge and skills that can be applied to careers in both academia and practice. Upon completion of the GIS minor coursework, students will be able to

- Demonstrate a mastery of basic skills and techniques of using GIS software;
- Identify, describe, diagnose, and offer possible solutions to issues related to each student's major using GIS technology;
- Demonstrate skills to develop and present concise but effective presentations with geospatial data;
- Demonstrate abilities to work effectively with students from different backgrounds in accomplishing team projects.

Required Courses

ENS 304 Mapping Our Social and Physical World (3 hrs.)
 ENS 404 Fundamentals of GIS (4 hrs.)
 ENS 405 Fundamentals of Remote Sensing (4 hrs.)

