

GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE

Program Description

This certificate program will provide students with a credential that is in high demand in many different disciplines/industries. The program provides a well-rounded suite of skills including: primary data collection using a variety of global positioning devices; hands-on experience with a variety of geographic information systems including ESRI's suite of tools; the basics of geospatial analysis; and a choice of advanced skill development. Students may pursue the certificate in the context of their major by completing discipline specific projects in the GIS courses.

Program Learning Outcomes

Students earning the GIS certificate will be able to:

- Collect and process primary geospatial data.
- Compile, integrate, and manage spatial data from various sources and develop workflows to complete individual and collaborative geospatial projects.
- Utilize state of the art geospatial tools to perform spatial analysis and visualization that effectively, concisely, and ethically represents geospatial data.
- Effectively communicate methodologies and outcomes of data and literature-based geospatial projects through oral, written, and graphic media.

Requirements

Code	Title	Hours
Department Requirements		
EVRN 131	Introduction to GIS and GPS	3
EVRN 225	Intermediate GIS	3
EVRN 325	Geospatial Analysis	3
Select one of the following:		4
EVRN 355	GIS Programming & Applications	
EVRN 365	App Geospatial Technologies	
EVRN 445	Remote Sensing & Spatial Stats	
Total Hours		13

A grade of C or better is required in each EVRN course. A minimum of 13 credits (at the 100 level or higher) must be earned for graduation with a cumulative gpa of 2.00 or higher.