

GEOSPATIAL, GEOGRAPHIC INFORMATION SYSTEMS, CERTIFICATE

(Code 140-602)

The Department of Geography and Anthropology offers a Geospatial Certificate Program with Four Options: Geospatial Certificate, Geospatial Certificate in Geographic Information Systems, Geospatial Certificate in Remote Sensing, and Geospatial Certificate in Mapping. The goals of the Certificate are:

1. to provide students with the fundamentals and a working knowledge of the core geospatial technology skills, specifically geographic information systems, remote sensing, field data collection (GPS and surveying) and spatial thinking,
2. to give students the option to specialize by choosing an emphasis in one of three different areas: Geographic Information Systems, Remote Sensing, or Computer Mapping, and
3. to expose students to ethical issues involved with the use of geospatial technology.

While the Certificate is targeted primarily at professionals in the workforce who want to further their education by adding this credential onto their existing degrees, it provides current UW-Eau Claire students an opportunity to add a specific high demand set of skills and associated credentials onto their already marketable liberal arts degree from UW-Eau Claire. For advising, see Professor Ryan Weichelt (Geography and Anthropology).

Code	Title	Credits
Eighteen semester credits, including:		
GEOG 335	Geographic Information Systems I	3
GEOG 336	Geospatial Field Methods	3
GEOG 337	Geographic Information Systems II	3
GEOG 338	Remote Sensing of the Environment	3
GEOG 435	Geographic Information Systems III	3
Electives, select one of the following:		
GEOG 370	Quantitative Methods in Geography	
GEOG 455	Web Geographic Information Systems	

Note: Students can only receive one of the three specialized certificates, due to the potential overlap between the electives. Students cannot pursue the Geography Major and any of the Geospatial Certificates to meet graduation requirements for completing a first and second degree program.

Program Learning Outcomes

Students completing this program will be expected to meet the following learning outcomes:

- Demonstrate the skills necessary to perform standard geospatial tasks.
- Demonstrate proficiency in industry standard software and using industry standard field equipment.
- Design, compile, and develop a spatial database and set of analytical tools within a Geographic Information System framework appropriate to a given problem.