

New Undergraduate Certificate in Geographic Information Systems (GIS) and Geospatial Technology

GIS and associated technologies such as GPS and remote sensing are useful in fields such as urban planning, environmental science and management, engineering, environmental justice, public policy, criminal justice, and many others. Our undergraduate certificate provides students from any discipline with expertise in these tools.



Certificate Objectives

- **Geospatial Tools:** Learn to use industry-standard GIS software and data collection technologies such as GPS, unmanned aerial systems, satellite imagery, and ground-based surveying equipment.
- **Characterization of Geospatial Problems:** Formulate questions that can be answered using geospatial technology.
- **Data Collection:** Collect and process geospatial data using technologies that are appropriate for the geospatial question.
- **Critical Analysis:** Use geospatial technology to analyze and address social and environmental problems.
- **Visualization and Communication:** Prepare maps and other visualizations that highlight important geographic relationships.

Course requirements

EVST/ENSC 3500 Introduction to GIS;
EVST/ENSC 3700 Intermediate GIS;
Either ENSC 3800 Aerial Imaging and Mapping
OR CEEGR 3110 Surveying and Geomatics.

The certificate launches in 2024/25 and is open to any undergraduate student.

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