

GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY - GRADUATE MINOR

GEOG 588	GIS and Water Resources
GEOG 544	GIS&T Professional Portfolio
GEOG 545	Geospatial Professionalism
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Total Credits	11-12

Overview

The Department of Geography and Environmental Studies offers a Graduate Minor in Geographic Information Science and Technology (GIS&T). This minor is available to all graduate students and provides a valuable concentration for those seeking jobs that involve spatial data collection and analysis.

Graduates find career opportunities in diverse fields such as data and information management, urban and regional planning, water resource management, ecology, cultural resource management, emergency management, and public health.

Program Learning Outcomes

Upon completion of the Graduate Minor in Geographic Information Science & Technology, students will be able to:

1. Think spatially, geographically, and geospatially.
2. Explain basic and advanced concepts, methods, and applications in geographic information science and technology, including geographic information systems and remote sensing.
3. Solve real-world problems by acquiring, analyzing, interpreting, evaluating, and visualizing spatial data.

More Information

See the Requirements tab for details on course and credit expectations for earning the Graduate Minor in GIS&T.

Course and Credit Requirements

The Department of Geography and Environmental Studies offers a graduate minor in Geographic Information Science and Technology (GIS&T). This minor is available to all graduate students and provides a valuable concentration for those pursuing professional careers that involve spatial data collection and analysis. Career opportunities span diverse fields, including data and information management, urban and regional planning, water resource management, ecology, cultural resource management, emergency management, and public health.

To earn the minor in GIS&T, students must complete the following required courses, totaling 11-12 credits. All courses must be taken for a letter grade, with a minimum grade of B- required in each course. Students must also include a representative from the Department of Geography and Environmental Studies on their graduate committee.

Prefix	Title	Credits
Requirements		
GEOG 573	Introduction to Remote Sensing	4
GEOG 578	Fundamentals of GIS	4
Select 3-4 credits from the following:		3-4
GEOG 542	Programming for GIS	
GEOG 571	Cartography and GIS	
GEOG 582	Advanced Remote Sensing	
GEOG 585	Spatial Analysis and Modeling	