

# Geographic Information Systems (Minor)

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The Geographic Information Systems (GIS) graduate minor provides an academic credential for graduate students who want to develop some GIS application skills while pursuing a graduate degree in another discipline. It is designed for students who wish to master the basics of GIS and geospatial analysis.

Adding the minor:

- Students should consult with their program advisor/committee before adding the minor.
- Students can search for and add the minor via their Graduate Planner in MyPack Portal
- Students will need to identify a member of the geospatial graduate faculty to serve as the GIS Minor rep on their committee. A list of currently approved faculty members can be provided to students upon request by contacting the director of graduate programs for the minor. If no graduate committee is required by the student's program, the student must obtain approval of his or her minor program. Students enrolled in Option B Masters programs are not eligible to declare a minor. Certificate coursework and Minor coursework must be completely independent.

## More Information

Program Website

### Master's Minor Requirements

Code	Title	Hours
<b>Required Courses</b>		<b>3</b>
GIS 510	Fundamentals of Geospatial Information Science and Technology	
<b>Elective Courses</b>		<b>6</b>
See "Elective Courses" listed below		
<b>Total Hours</b>		<b>9</b>

### Doctoral Minor Requirements

Code	Title	Hours
<b>Required Courses</b>		<b>3</b>
GIS 510	Fundamentals of Geospatial Information Science and Technology	
<b>Elective Courses</b>		<b>9</b>
See "Elective Courses" listed below		
<b>Total Hours</b>		<b>12</b>

### Elective Courses

Code	Title	Hours
<b>Select three credits for Master's students or 6 credits for Doctoral students from the following courses:</b>		
GIS 511	Coding for Geospatial Applications	
GIS 512	Introduction to Environmental Remote Sensing	
GIS 515	Cartographic Design	

GIS/LAR 517	GIS Applications in Landscape Architecture and Environmental Planning
GIS 520	Geospatial Data Science and Analysis
GIS 521	Surface Water Hydrology with GIS
GIS 530	Spatial Data Foundations
GIS 535	Web and Mobile GIS Protocols
GIS 540	Geospatial Programming
GIS 550	Geospatial Data Structures and Web Services
GIS 595	Special Topics in Geospatial Information Science
GIS/MEA 582	Geospatial Modeling
GIS 584	Mapping and Analysis Using UAS
GIS 609	Geospatial Forum
GIS 610	Special Topics in Geospatial Information Science
GIS 711	Geospatial Data Management
GIS 712	Environmental Earth Observation and Remote Sensing
GIS 713	Geospatial Data Mining
GIS 714	Geospatial Computation and Simulation
GIS 715	Geovisualization
SSC 540	Geographic Information Systems (GIS) in Soil Science and Agriculture
BAE 535	Precision Agriculture Technology
BAE 536	GIS Applications in Precision Agriculture
MEA 511	Introduction to Meteorological Remote Sensing
HI 535	Spatial History
ST 533	Applied Spatial Statistics

\* **Up to 3 credit hours can be non-GIS prefix courses.** Other courses not listed can be approved as an elective upon consultation with the student's primary program advisor and/or committee. Director of the minor should also be notified.

## Faculty

### Director

Eric Money

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### Full Professors

Yu-Fai Leung

Ross Meentemeyer

Helena Mitsova

Stacy Nelson

Gary Roberson

Mirela Tulbure

Raju Vatsavai

Sandra Yuter

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## **Associate Professors**

Josh Gray

Jelena Vukomanovic

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## **Associate Teaching Professors**

Eric Money

Stacy Supak

Laura Tateosian

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## **Lecturers**

Kate Jones

Juliana Quist

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## **Emeritus Faculty**

Perver Baran

Heather Cheshire

Hugh Devine

Siamak Khorram