

**Geographic Information Systems Certificate**

The Department of Geosciences offers undergraduates a certificate in Geographic Information Systems. Departmental majors or other students who complete the four required courses (12 credits) below with a grade of "C" or better in each course are entitled to the GIS certificate. Students should consult their departmental advisor or another faculty member about registration for this program. Students may use these courses in the completion of a major.

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Required Courses		
Introduction to Mapping and GIS	GIS 3015C	3
Principles of Geographic Information Systems	GIS 4043C	3
Remote Sensing of the Environment	GIS 4035C	3
<i>Choose one of the following elective courses</i>		
Digital Image Analysis	GIS 4037C	3
<u>Applications of GIS</u>	<u>GIS 4048C</u>	<u>3</u>
<u>Geospatial Databases</u>	<u>GIS 4118</u>	<u>3</u>
<u>Geovisualization and GIS</u>	<u>GIS 4138C</u>	<u>3</u>