

# GEOGRAPHICAL INFORMATION SYSTEMS UNDERGRADUATE CERTIFICATE

---

The program in Geographical Information Systems is a four course (12 credit) interdisciplinary program that leads to an undergraduate certificate in geographical information systems and spatial literacy. It can be completed by students in conjunction with any major across the university.

## Learning Goals and Outcomes

**Goal 1:** Develop critical interdisciplinary spatial literacy

**Goal 2:** Acquire proficiency in geospatial technologies and methods in order to discover, retrieve, interpret, analyze, visualize, and store spatial data

**Goal 3:** Understand and adopt the ethical principles and collaborative spirit of the academic GIS community

**Goal 4:** Understand the relationship between geography, culture, and justice and how they relate to real world issues

## Requirements

Code	Title	Hours
GIS 101	Introduction to GIS	3
GIS 201	Intermediate GIS	3
Choose 2 courses:		6
GIS 170	Special Topics in GIS	
GIS 270	Special Topics in GIS	
GIS 370	Special Topics in GIS	
<b>Total Hours</b>		<b>12</b>