

## Certificate

# Geographic Information Science Certificate

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The graduate certificate in geographic information science provides knowledge and tools for students and professionals pursuing careers in geographic information systems (GIS) and related spatial technologies. The certificate is an affidavit of academic proficiency in GIS and related areas such as remote sensing, global positioning systems, cartography, and spatial data analysis. This certificate is designed for graduate students and professionals employed in geographic information science fields. The certificate is available to postgraduate professionals who meet the requirements. Students with comparable professional experience may be able to show competence in selected courses through examination. For information regarding the undergraduate certificate in Geographic Information Science, please consult the Undergraduate Catalog.

## Admission Requirements

Submission of:

- Graduate Record Examination (GRE) scores; no minimum score required—results represent one factor considered for admission;
- Official transcripts of all undergraduate and prior graduate coursework;
- Two letters of recommendation addressing the candidate's capacity to undertake graduate work in geographic information science;
- An essay of not more than 500 words describing interest in and capacity for advanced training in geographic information science; and
- One example of writing or research (a paper submitted to a seminar, a publication or report, or another comparable example).

## Curriculum Requirements

Students must take 15 credit hours in the areas listed below and complete them with a cumulative GPA of 3.00 or higher and no grade below a C (2.00) for undergraduate students or B (3.00) for graduate students.

### Core Courses

GEOG 502	Geographic Information Systems	3
GEOG 504	Digital Techniques for Remote Sensing	3
GEOG 508	Cartography	3

### Elective Courses

Select three of the following:		9
GEOG 519	Spatial Analysis of Coastal Environments	
GEOG 525	Internet Geographic Information Systems	
GEOG 532	Advanced GIS	
GEOG 563	GIS Programming	
GEOG 573	Geographic Information Systems for Emergency Management	
GEOG 590	Applied Cartography/GIS	
GEOG 595	Topics in Geography	
or GEOG 596	Topics in Geography	
GEOG 697	Independent Research in Geography *	

**Total Credit Hours** **18**

\* Advanced approval required to count toward the certificate.