

Certificate

Geographic Information Science Certificate

Dr. Jennifer Whytlaw, Graduate Certificate Program Director

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 two of the following: | | 6 |
| 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 **15**

* Advanced approval required to count toward the certificate.