

# GEOGRAPHIC INFORMATION SCIENCE - GRADUATE CERTIFICATE

College of Arts and Sciences  
Department of Geography  
[www.kent.edu/geography](http://www.kent.edu/geography)

## About This Program

Our Geographic Information Science graduate certificate provides you with the knowledge and skills needed to thrive in the rapidly growing field of GIS. With a focus on practical, hands-on learning and real-world applications, you'll gain the expertise needed to solve complex spatial problems and create innovative solutions. Read more...

## Contact Information

- Program Coordinator: **Andrew Scholl** | [ascholl1@kent.edu](mailto:ascholl1@kent.edu) | 330-672-7669
- Connect with an Admissions Counselor: U.S. Student | International Student

## Program Delivery

- **Delivery:**
  - Fully online

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

## Admission Requirements

- Official transcript(s)
- Undergraduate degree in geography or a related field<sup>1</sup>
- Minimum 3.000 undergraduate GPA
- Goal statement
- Two letters of recommendation

For more information about graduate admissions, please visit the Graduate Studies website.

<sup>1</sup> Requirement that undergraduate degree be in geography or related field may be waived with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate program.

## Application Deadlines

- **Fall Semester**
  - Rolling admissions
- **Spring Semester**
  - Rolling admissions
- **Summer Term**
  - Rolling admissions

## Program Requirements

### Major Requirements

### Graduation Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
GEOG 59071	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I	3
GEOG 59081	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II	3
GEOG 69164	CARTOGRAPHIC DESIGN	3
Certificate Elective, choose from the following:		6
CS 61002	ALGORITHMS AND PROGRAMMING I	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 59075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69007	SPATIOTEMPORAL ANALYTICS	
GEOG 69073	GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH	
GEOG 69074	GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY	
GEOG 69079	ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE	
GEOG 69082	CYBERGIS	
GEOG 69083	GEODATABASES	
GEOG 69231	ENVIRONMENTAL REMOTE SENSING	

**Minimum Total Credit Hours:** 15

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Full Description

The Geographic Information Science graduate certificate prepares graduates to work in the geospatial technology industry, as well as in allied industries that rely on employees who are highly trained in this technology. Prospective employers are private and public sector entities that need to manage large systems and big geospatial data, map and analyze health data, and map and analyze environmental conditions and resources. Examples of such employers are local, state and federal government agencies; business that focus on logistics, marketing and engineering; and non-profit agencies in health services and environmental management.