

GEOGRAPHIC INFORMATION SCIENCE - GRADUATE CERTIFICATE

College of Arts and Sciences
Department of Geography
www.kent.edu/geography

About This Program

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.

Contact Information

- **Andrew Scholl** | 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

- Bachelor's degree from an accredited college or university in geography or a related field¹
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive²) by earning one of the following:²
- Minimum 79 TOEFL iBT score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 DET score

¹ 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.
² International applicants who do not meet the above test scores will not be considered for admission.

Application Deadlines

- **Fall Semester**
 - Rolling admissions
- **Spring Semester**
 - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
GEOG 59071	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I	3
GEOG 59081	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II	3
GEOG 69164	CARTOGRAPHIC DESIGN	3
Certificate Electives, 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

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	3.000

Program Learning Outcomes