GEOGRAPHIC INFORMATION SCIENCE - GRADUATE CERTIFICATE

College of Arts and Sciences
Department of Geography
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Kent Campus
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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.

Fully Offered At:
• Online

Admission Requirements
• Official transcript(s)
• Undergraduate degree in geography or a related field
• Minimum 3.000 undergraduate GPA
• Goal statement
• Two letters of recommendation

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

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.

Program Requirements
Certificate Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>GEOG 59071</td>
<td>FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I</td>
<td>3</td>
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<td>GEOG 59081</td>
<td>FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II</td>
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<td>GEOG 69164</td>
<td>CARTOGRAPHIC DESIGN</td>
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Certificate Elective, choose from the following: 6

Graduation Requirements
Minimum Certificate GPA
3.000

Minimum Total Credit Hours: 15

GEOG 59071 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I
GEOG 59081 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II
GEOG 69164 CARTOGRAPHIC DESIGN
CS 61002 ALGORITHMS AND PROGRAMMING I
DSCI 64210 DATA SCIENCE
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: ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE
GEOG 69079 ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE
GEOG 69082 CYBERGIS
GEOG 69083 GEODATABASES
GEOG 69231 ENVIRONMENTAL REMOTE SENSING
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