GEOGRAPHIC INFORMATION SCIENCE - M.G.I.SC.

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

About This Program
The Geographic Information Science M.G.I.Sc. degree prepares you for a career at the forefront of geospatial technology. With a blend of technical knowledge and practical experience, you will learn to analyze and manage geospatial data and make informed decisions. Read more...

Contact Information
• Program Coordinator: 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 field\(^1\)
• 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) by earning one of the following:
  • Minimum 550 TOEFL PBT score (paper-based version)
  • Minimum 79 TOEFL IBT score (Internet-based version)
  • Minimum 77 MELAB score
  • Minimum 6.5 IELTS score
  • Minimum 58 PTE score
  • Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education’s admission website.

Program Learning Outcomes
Graduates of this program will be able to:
1. Collect, edit, integrate, manage and analyze geospatial data.
2. Demonstrate skills and working knowledge of commercial and open source GIS application suites and utilities.
3. Identify, explain and analyze spatial patterns, relationships and processes.

Application Deadlines
• Fall Semester
  • Rolling admissions
• Spring Semester
  • Rolling admissions

Program Requirements
Major Requirements

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<tr>
<th>Code</th>
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<th>Credit Hours</th>
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<tr>
<td>GEOG 59071</td>
<td>FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I</td>
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<td>FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II</td>
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<td>GEOG 69164</td>
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<td>GEOG 69231</td>
<td>ENVIRONMENTAL REMOTE SENSING</td>
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<td>GEOG 69392</td>
<td>PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE (^1)</td>
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Major Electives, choose from the following: 12

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<td>GEOG 59072</td>
<td>GEOGRAPHIC INFORMATION SCIENCE AND HEALTH</td>
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<td>GEOG 59075</td>
<td>GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS</td>
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<td>GEOG 59076</td>
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<td>GEOG 59078</td>
<td>GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS</td>
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<td>QUANTITATIVE METHODS IN GEOGRAPHY</td>
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<td>SPATIOTEMPORAL ANALYTICS</td>
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<td>CYBERGIS</td>
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<td>GEOG 69083</td>
<td>GEDATABASES</td>
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Minimum Total Credit Hours: 30

\(^1\) Requirement that undergraduate degree be in geography or related field may be waved with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate program.
4. Apply cartographic principles and techniques to create quality maps.
5. Apply critical and spatial thinking to solve geospatial problems
   with respect to theories, principles and practices of geographic
   information science and fields in the degree concentration areas.
6. Demonstrate good communication skills and ability to work in a team environment.

Full Description
The Master of Geographic Information Science degree provides students with skills that extend beyond simply understanding software features
or capabilities. Students develop a more robust understanding of how GiSc functions across different sectors and have a positive impact on
some of the greatest global challenges today, including climate change,
transportation, and public health. Students have the opportunity to
design and manage geographic information technologies to develop and
improve the tools and systems people rely on every day

Graduates of the program are prepared for analytical and managerial
positions that utilize geospatial technologies. Those positions can be
found in a number of sectors, ranging from real estate and healthcare to
disaster relief and finance.