
Information about facilities, supporting faculty and staff, and program requirements for all graduate programs in the department can be found in the Geography (http://guide.wisc.edu/graduate/geography/) listing in this catalog.

The MS (Thesis) in Cartography and Geographic Information Systems provides a broad foundation in the theory and application of mapping and geographic information sciences. Students who earn the MS (Thesis) degree are prepared to continue on for the PhD in geography or for positions in government agencies, planning organizations, environmental agencies, nongovernmental organizations, and private industry.

**ADMISSIONS**

Students apply to the Master of Science in Cartography and Geographic Information Systems through one of the named options:

- GIS Development, MS (http://guide.wisc.edu/graduate/geography/cartography-geographic-information-systems-ms/cartography-geographic-information-systems-gis-development-ms/)

**FUNDING**

**GRADUATE SCHOOL RESOURCES**

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding/) is available from the Graduate School.

**REQUIREMENTS**

**MINIMUM GRADUATE SCHOOL REQUIREMENTS**

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

**MAJOR REQUIREMENTS**

**CURRICULAR REQUIREMENTS**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Detail</th>
<th>Credit Requirement</th>
<th>Minimum</th>
<th>Residence Credit Requirement</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Graduate GPA</td>
<td>3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1203">https://policy.wisc.edu/library/UW-1203</a> (<a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a>).</td>
<td>3.00 GPA</td>
<td>16 credits</td>
<td>15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> (<a href="https://policy.wisc.edu/library/UW-1244/">https://policy.wisc.edu/library/UW-1244/</a>).</td>
<td></td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td></td>
</tr>
</tbody>
</table>

**REQUIRED COURSES**

Select a Named Option (https://guide.wisc.edu/graduate/geography/cartography-geographic-information-systems-ms/#NamedOptions) for courses required.
NAMED OPTIONS
A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferral. Students pursuing the Master of Science in Cartography and Geographic Information Systems must select one of the following named options:

View as list

- CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS: ACCELERATED/ NON-THESIS, MS (HTTP://GUIDE.WISC.EDU/GRADUATE/ GEOGRAPHY/CARTOGRAPHY- GEOGRAPHIC-INFORMATION-SYSTEMS- MS/CARTOGRAPHY-GEOGRAPHIC- INFORMATION-SYSTEMS-ACCELERATED- NON-THESIS-MS/)
- CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS: GIS DEVELOPMENT, MS (HTTP://GUIDE.WISC.EDU/GRADUATE/ GEOGRAPHY/CARTOGRAPHY- GEOGRAPHIC-INFORMATION-SYSTEMS- MS/CARTOGRAPHY-GEOGRAPHIC- INFORMATION-SYSTEMS-GIS- DEVELOPMENT-MS/)
- CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS: THESIS, MS (HTTP://GUIDE.WISC.EDU/GRADUATE/ GEOGRAPHY/CARTOGRAPHY- GEOGRAPHIC-INFORMATION-SYSTEMS- MS/CARTOGRAPHY-GEOGRAPHIC- INFORMATION-SYSTEMS-THESIS-MS/)

PROFESSIONAL DEVELOPMENT

PROFESSIONAL DEVELOPMENT
GRADUATE SCHOOL RESOURCES
Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd/) to build skills, thrive academically, and launch your career.

LEARNING OUTCOMES
1. Articulates, critiques, or elaborates the concepts, theories, methods, and/or approaches to design and inquiry in Cartography and GIScience.
2. Identifies sources, assembles evidence, and/or builds justification for addressing questions or challenges in Cartography and GIScience.
3. Demonstrates understanding of Cartography and GIScience in a historical, social, global, and/or technological context.
4. Selects and/or utilizes the most appropriate methods, technological solutions, and practices to address challenges in Cartography and GIScience.
5. Analyzes, synthesizes, and evaluates information pertaining to questions or challenges in Cartography and GIScience for addressing broad questions in Geography and related fields.
6. Communicates clearly in written, verbal, and visual ways appropriate to Cartography and GIScience.
7. Demonstrates state-of-the-art technical skills in Cartography and GIScience.
8. Recognizes and applies principles of ethical and professional conduct expected in Cartography and GIScience.

PEOPLE

PEOPLE
FACULTY
Department Chair: John (Jack) Williams


Associate Professors: Song Gao, Asligül Göçmen, Qunying Huang, Jenna Loyd, Sarah Moore, Stephen Young

Assistant Professors: Christian Andresen, Ken Keeover-Ring, Bill Limpisathian, Almita Miranda, Jonathan Nelson