CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS, MS

The Department of Geography offers a thesis-based master of science in Cartography and Geographic Information Systems, titled Thesis (https://guide.wisc.edu/graduate/geography/cartography-geographic-information-systems-ms/cartography-geographic-information-systems-thesis-ms/). In addition, it offers two professional non-thesis options in the Cartography and Geographic Information Systems MS titled: GIS Development (https://guide.wisc.edu/graduate/geography/cartography-geographic-information-systems-ms/cartography-geographic-information-systems-ms/eartography-geographic-information-systems-ms/eartography-geography/cartography-geographic-information-systems-ms/cartography-geographic-information-systems-accelerated-non-thesis-ms/#text) (inresidence program).

Information about facilities, supporting faculty and staff, and program requirements for all graduate programs in the department can be found in the Geography (https://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

ADMISSIONS

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

- Accelerated/Non-Thesis, MS (https://guide.wisc.edu/graduate/ geography/cartography-geographic-information-systems-ms/ cartography-geographic-information-systems-accelerated-nonthesis-ms/)
- GIS Development, MS (https://guide.wisc.edu/graduate/geography/ cartography-geographic-information-systems-ms/cartographygeographic-information-systems-gis-development-ms/)
- Thesis (https://guide.wisc.edu/graduate/geography/cartography-geographic-information-systems-ms/cartography-geographic-information-systems-thesis-ms/), MS (https://guide.wisc.edu/graduate/geography/cartography-geographic-information-systems-ms/cartography-geographic-information-systems-thesis-ms/)

FUNDING

FUNDING GRADUATE SCHOOL RESOURCES

The Bursar's Office provides information about tuition and fees associated with being a graduate student. Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

PROGRAM RESOURCES

See "How Does Funding Work?" at the Geography Master's FAQ (https://geography.wisc.edu/graduate/graduate-programs-faq/).

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

MAJOR REQUIREMENTS CURRICULAR REQUIREMENTS

Requirement Detail

Minimum 30 credits

Credit

Requirement

Minimum 16 credits

Residence Credit Requirement

Minimum 15 credits must be graduate-level coursework. Refer to Graduate the Graduate School: Minimum Graduate Coursework

Coursework (50%) Requirement policy: https://policy.wisc.edu/library/

Requirement UW-1244 (https://policy.wisc.edu/library/UW-1244/).

Overall 3.00 GPA required. Refer to the Graduate School:
Graduate Grade Point Average (GPA) Requirement policy: https://
GPA policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/

Requirement library/UW-1203/).

Other Grade n/a Requirements

Assessments See Named Options for information.

and

Examinations

Language No language requirement.

Requirements

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 listView as grid

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

POLICIES

POLICIES

Students should refer to one of the named options for policy information:

- Accelerated/Non-Thesis, MS (https://guide.wisc.edu/graduate/ geography/cartography-geographic-information-systems-ms/ cartography-geographic-information-systems-accelerated-nonthesis-ms/)
- GIS Development, MS (https://guide.wisc.edu/graduate/geography/ cartography-geographic-information-systems-ms/cartographygeographic-information-systems-gis-development-ms/)
- Thesis (https://guide.wisc.edu/graduate/geography/cartography-geographic-information-systems-ms/cartography-geographic-information-systems-thesis-ms/), MS (https://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

LEARNING OUTCOMES

- Articulates, critiques, or elaborates the concepts, theories, methods, and/or approaches to design and inquiry in Cartography and GIScience.
- 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.
- Selects and/or utilizes the most appropriate methods, technological solutions, and practices to address challenges in Cartography and GIScience.
- Analyzes, synthesizes, and evaluates information pertaining to questions or challenges in Cartography and GIScience for addressing broad questions in Geography and related fields.
- 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.