

# CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS: GIS DEVELOPMENT, M.S.

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

### NAMED OPTION REQUIREMENTS MODE OF INSTRUCTION

| Face to Face | Evening/<br>Weekend | Online | Hybrid | Accelerated |
|--------------|---------------------|--------|--------|-------------|
| No           | No                  | Yes    | No     | No          |

#### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW–Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### CURRICULAR REQUIREMENTS

#### Requirement Detail

Minimum  
Credit  
Requirement

Minimum  
Residence  
Credit  
Requirement

|   |   |
|---|---|
| Minimum Graduate Coursework Requirement | 15 credits must be graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) policy ( <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> ). |
| Overall Graduate GPA Requirement        | 3.00 GPA required. This program follows the Graduate School's policy: <a href="https://policy.wisc.edu/library/UW-1203">https://policy.wisc.edu/library/UW-1203</a> .   |
| Other Grade Requirements                | n/a   |
| Assessments and Examinations            | No formal examination is required.  |
| Language Requirements                   | No language requirement.  |

### REQUIRED COURSES

Students must complete the coursework for breadth requirements at an accredited institution of higher learning prior to entering the program. The Program Director, in consultation with the Program Admissions Committee, may choose to waive these requirements if an applicant provides evidence of sufficient knowledge in these areas gained through work experience. Students must have completed the equivalent of two (2) undergraduate-level courses in GIS and/or Cartography and Visualization, and one (1) course in Quantitative Methods.

| Code                 | Title                                      | Credits   |
|----------------------|--|-----------|
| GEOG 378             | Introduction to Geocomputing               | 4         |
| GEOG 572             | Graphic Design in Cartography              | 4         |
| GEOG 574             | Geospatial Database Design and Development | 4         |
| GEOG 575             | Interactive Cartography & Geovisualization | 4         |
| GEOG 576             | Geospatial Web and Mobile Programming      | 4         |
| GEOG 579             | GIS and Spatial Analysis                   | 4         |
| GEOG 777             | Capstone in GIS Development                | 4         |
| GEOG 778             | Practicum in GIS Development               | 4         |
| <b>Total Credits</b> |  | <b>32</b> |

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval. Students in this program cannot enroll concurrently in other undergraduate, graduate or certificate programs.