### Min cr
- MS – Geog: 30 cr (16 cr as UW-MSN grad)
- MS – Cart/GIS (thesis option): 30 cr (16 cr as UW-MSN grad)
- MS-Cart/GIS (GIS Dvipmt option): 35 cr (32 cr taken as a UW-MSN grad)
- PhD: 51 cr

### GPA
- MS – Geog: 3.0
- MS – Cart/GIS (thesis option): 3.0
- MS-Cart/GIS (GIS Dvipmt option): 3.0
- PhD: 3.0

### Breadth
- Phys + Hum + P/E + Cart/GIS + Stats
- Quant methods + 2 math courses + 2 int or adv geog courses
- Quant methods + 2 Cart/GIS courses
- Phys + Hum + P/E + Cart/GIS + Stats

### Coursework
**Typically not seminars:**
- Geog 765 (1cr) + Geog 766 (3cr)
- 2 grad courses 300-level and above
  - Both must be Geography
- One can doublecount for breadth
- Cannot include seminars
- 2 (3-cr) Geog seminars w/ 2 diff faculty
- Geog 778 - Practicum in GIS Dvipmt (4 cr)

### Master’s thesis
- Proposal typically in Geog 766 (23rd semester)
- Research/data analysis in summer + 3rd sem
- Final draft submitted/defended in 4th sem +/- summer
- N/A

### Minor
- N/A
- any coursework completed as a UW-Madison Geog graduate student can be used
- Opt A – 9 cr in one, non-Geog dept
- Opt B (Dist) – 9 cr in 2+ non-Geog depts

### Skills
- N/A
- (4 options) - any coursework completed as a graduate student can be used
- Competence in non-Eng lang
- Quant skills (6 cr of int or adv courses)
- Qual skills (6 cr of int or adv courses)
- Quant + Qual (6 cr of int or adv courses)

### Preliminary or Qualifying exams
- N/A
- General exam - 8 hours
- Covers one of the breadth areas
- Specific exam
- Devised and graded by individual’s committee
- Dissertation proposal
- Proposal must orally defended before a thesis committee

### Dissertation
- N/A
- Follow Grad School formatting requirements
- Must be orally defended

### Advisor
- Your Advisor, who is also the chair (or co-chair) of your Committee must be graduate faculty in Geography (or affiliated with Geog).

### Committee
- Your Committee must have a min of 3 members, 2 of whom must be grad faculty
- (or former grad faculty up to one year after resignation/retirement) and two of whom must be affiliated with the Geography Department.
- Committee must have a min of 5 members
- Four must be grad faculty (or former grad faculty up to 1 year after resignation/retirement) and at least 2 of whom must be Geography faculty.
- At least one must be non-Geography (i.e., not affiliated w/Geog)

### Public Talk
- 15-20 minute public talk required
- no public talk required
- should be within a month of final defense
- must be in a venue open to all members of the department
- 30-40 minute public talk required

### Graduate Course Work
- Graduate course work can include UW-Madison courses (including but not limited to online, thesis/research, independent study, and practicum/internship credits) that satisfy one of the following guidelines:
  - numbered 700 and above; OR numbered 300-699 that are specifically designed for graduate students in a graduate program; OR
  - numbered 300-699 that assess graduate students separately from undergraduate students; OR numbered 300-699 that have a graduate student enrollment >50% in any given semester.

### Prior Course work
- With approval, students can count up to 6 credits of grad course work from other institutions
- With approval, students can count up to 8 credits of grad course work from other institutions
- With approval, students can count up to 9 credits of grad course work from other institutions