

	<b>MS – Geog</b>	<b>MS – Cart/GIS (thesis option)</b>	<b>MS-Cart/GIS (GIS Dvlpmt option)</b>	<b>PhD</b>
<b>Min cr</b>	30 cr (16 cr as UW-MSN grad)	30 cr (16 cr as UW-MSN grad)		51 cr (32 cr taken as a UW-MSN grad)
<b>Maintain GPA</b>	3.0	3.0		3.0
<b>Breadth</b> (typically not seminars):	Phys + Hum + P/E + Cart/GIS + Stats  (One can be doublecounted for coursework)	Quant methods + 2 math courses + 2 int or adv geog courses	Quant methods + 2 Cart/GIS courses	Phys + Hum + P/E + Cart/GIS + Stats
<b>Coursework Requirements</b> (min of 50% must be graduate course work - see definition below)	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 765 (1cr) + Geog 766 (3cr) Geog 370 (Intro Cart) (4cr) Geog 377 (Intro GIS) (4cr) Geog 378 (Geocomputing) (3cr) Geog 970 (GIScience Seminar) (3cr) Two courses (6-8 cr) of Geog 570 (Problems in Cart) Geog 572 (Graphic Design in Cart) Geog 575 – Interactive Cart & Geovis Geog 577 (EnvModeling with GIS) Geog 578 (GIS Applications) Geog 579 (Spatial Analysis)	Geog 378 - Geocomputing (4 cr) Geog 572 – Graphic Design - Cart(4 cr) Geog 575 – Interactive Cart & Geovis (4 cr) Geog 574 – Spatial Database (4 cr) Geog 576 – Geospatial Web(4 cr) Geog 579 – GIS and Spatial Analysis(4 cr) Geog 777 - Capstone in GIS Dvlpmt (4 cr) Geog 778 - Practicum in GIS Dvlpmt (4 cr)	Geog 765 (1cr) 2 (3-cr) Geog seminars w/ 2 diff faculty Cannot use seminars completed as MS student
<b>Master's thesis</b>	Proposal typically in Geog 766 (2 <sup>nd</sup> semester) Research/data analysis in summer + 3 <sup>rd</sup> sem Final draft submitted/defended in 4 <sup>th</sup> sem +/- summer		N/A	N/A
<b>Minor</b>		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
<b>Skills</b>		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)
<b>Preliminary or Qualifying Exams</b> (completion advances student to “Dissertator” status)		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
<b>Dissertation</b>		N/A		Follow Grad School formatting requirements Must be orally defended
<b>Advisor</b>	Your Advisor, who is also the chair (or co-chair) of your Committee must be graduate faculty in Geography (or affiliated with Geog).			
<b>Committee</b>	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)
<b>Public Talk</b>	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
<b>Graduate Course Work definition</b>	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.			
<b>Prior Course work</b>	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