

	MS – GEOG	MS – CART/GIS	MS – CART/GIS (ACCELERATED/NON-THESIS)	MS – CART/GIS (ONLINE/NON-THESIS)	PHD
Minimum Credits	30 cr (16 cr as UW-MSN grad)	30 cr (16 cr as UW-MSN grad)	30 cr	32 cr	51 cr (32 cr taken as a UW-MSN grad)
Maintain GPA	3.0	3.0	3.0	3.0	3.0
Breadth (typically not seminars)	Phys + Hum + P/E + Cart/GIS + Stats	Quant methods + 2 math courses + 2 int or adv geog courses	Quantitative Methods	Quantitative Methods + 2 courses in and/or GIS	Phys + Hum + P/E + Cart/GIS + Stats
	One can be doublecounted for coursework	One can be doublecounted for coursework			
	Geog 765 (1cr) + Geog 766 (3cr)	Geog 765 (1cr) + Geog 766 (3cr)	Geog 370 (Introduction to Cartography) – 4 cr.	Geog 378 (Geocomputing) – 4 cr.	Geog 765 (1cr)
	2 grad courses 300-level and above	Geog 370 (Intro Cart) (4cr)	Geog 377 (Introduction to GIS) – 4 cr.	Geog 572 (Graphic Design in Cartography) – 4 cr	2 (3-cr) Geog seminars w/ 2 diff faculty
	Both must be Geography	Geog 377 (Intro GIS) (4cr)	Geog 378 (Introduction to Geocomputing) – 4 cr.	Geog 574 (Spatial Database) – 4 cr.	Cannot use seminars completed as MS student
	One can doublecount for breadth	Geog 378 (Geocomputing) (3cr)	Geog 778 (Practicum in GIS Development) – 4 cr.	Geog 575 (Interactive Cart and Geovis) – 4 cr.	
	Cannot include seminars	Geog 970 (GIScience Seminar) (3cr)	14 credits from the following courses:	Geog 576 (Spatial Web and Mobile Prog) – 4 cr.	
	2 (3-cr) Geog seminars w/ 2 diff faculty	Two courses (6-8 cr) of	Geog 560 (Advanced Quantitative Methods)	Geog 579 (GIS and Spatial Analysis) – 4 cr.	
		Geog 570 (Problems in Cart)	Geog 572 (Graphic Design in Cartography) – 4	Geog 777 (Capstone in GIS Development) – 4 cr.	
		Geog 572 (Graphic Design in Cart)	Geog 574 (Spatial Database) – 4 cr.	Geog 778 (Practicum in GIS Development) – 4 cr.	
		Geog 575 (Interactive Cart and Ge	Geog 575 (Interactive Cart and Geovis) – 4 cr.		
		Geog 577 (EnvModeling with GIS)	Geog 576 (Spatial Web and Mobile Prog) – 4 cr.		
		Geog 578 (GIS Applications)	Geog 578 (GIS Applications) – 4 cr.		
		Geog 579 (Spatial Analysis)	Geog 579 (GIS and Spatial Analysis) – 4 cr.		
Master's Thesis	Proposal typically in Geog 766 (2 nd semester)		N/A	N/A	N/A
	Research/data analysis in summer + 3 rd sem				
	Final draft submitted/defended in 4 th sem +/- summer				
Minor	N/A		N/A	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
					(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 and/or Qualifying Exams (completion advances student to “Dissertator” status)	N/A		N/A	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		N/A	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). Note: the GIS Professional Programs Program Director acts as the advisor for all Non-thesis (Online and Accelerated) M.S. -- Cartography/GIS students.				
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.	N/A		N/A	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	N/A		N/A	30-40 minute public talk required
	should be within a month of final defense				should be within a month of final defense
	must be in a venue open to all members of the department				must be in a venue open to all members of the department
Graduate Course Work definition	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 7 credits of grad course work from other institutions.	With approval, students can count up to 7 credits of grad course work from other institutions.	With approval, students can count up to 7 credits of grad course work from other institutions.	With approval, students can count up to 9 credits of grad course work from other institutions