

4-year BA Geomatics/Computing Recipes

(requires 120 credit hours)

Year	Geography	Academic Writing	Indigenous	Humanities	Web Design	
1st year	GEOG1102: Intro Human Geography PCE	3	3	Humanities	ACS1805: Intro to Programming	3
	GEOG1103: Intro Human Geography PPD	3	3	Humanities	ACS1809: Website Design & Development	3
	GEOG1201: Intro Atmospheric Science	3	(GEOG3512 is eligible for (3) indigenous requirement)	Humanities	ACS1903: Programming Fundamentals II	3
	GEOG1202: Intro Earth Science	3		Humanities		
2nd year					ACS2814: Applications of Database Systems	3
GEOG2304: Computer Mapping	3			ACS2909: Internet Programming	3	
	GEOG2306: Intro to GIS	3				
	GEOG2309: Statistical Tech & Env Analysis	3		PHYS2102: Scientific Computing (C+)	3	
	GEOG2316: Intro to Remote Sensing	3		PHYS2104: Scientific Computing Python	3	
	1 of the following:	3				
	GEOG2503: Manitoba's Phys & Human Env.					
	GEOG3216: Arctic Environments					
	GEOG3508: Geographical Issue in the Dev. World					
	GEOG3510: Prairie Landscapes					
	GEOG3511: Topical Regions in Geography					
	GEOG3512: Human Geography of Northern Canada					
3rd year	GEOG3509: Canada's Phy & Human Env.	3			ACS3909: Adv Internet Programming	3
	GEOG3330: Research Methods in Geography	3				
	2 of 3 below:	6				
	GEOG3306: Advanced GIS					
	GEOG3307: Advanced Computer Mapping					
	GEOG3319: Advanced Remote Sensing					
	Human Geo @ 24xx,34xx,44xx	6				
4th year	2 of 3 below:	6				
	GEOG4320: Projects in Geomatics					
	GEOG4321: Topics in Geomatics I					
	GEOG4322: Topics in Geomatics II					
	4th Year Experiential Learning (e.g., GEOG4801: Geog Field Seminar BA)	3				
	Subtotal (no thesis)	54	6	12	24	
	GEOG4901: Honours Geography Thesis	6			96	
	Total (with thesis)	60			102	

NOTES: 4-year degrees are 120 hours; so some hours/credits open fo
CALC405 required from high school.