

Name: \_\_\_\_\_  
 Student ID: \_\_\_\_\_  
 Date Admitted Into Major: \_\_\_\_\_

## BACHELOR OF SCIENCE CARTOGRAPHY AND GIS

### GENERAL EDUCATION REQUIREMENTS

**Competencies**

<input type="checkbox"/>	◆ Basic College Math
<input type="checkbox"/>	◆ Reading Comprehension

**◆ General Education Categories (34-35 credits total)**

◆FYS	First Year Seminar			3	
◆W-I	Written Communication - Level I			3	
◆OC	Oral Communication			3	
PGR	Personal Growth & Responsibility			3	
CEA	Creative Expression & Appreciation			3	
WC	World Cultures			3	
HP	The Human Past			3	
CS	Contemporary Society			3	
SR	Scientific Reasoning:	# Any SR course		3-4	
		# SR Lab course		4	
QR	Quantitative Reasoning			3	

**‡ Written Communication (Level II and Level III) and Diversity, Power Dynamics and Social Justice**

W-II	Written Communication - Level II				<input type="checkbox"/>
W-III	Written Communication - Level III				<input type="checkbox"/>
DPDS	Diversity, Power Dynamics and Social Justice				<input type="checkbox"/>

**Minor/Free Electives (46 credits minimum)**

May be necessary to take additional credits to attain the minimum 120 credits required for graduation depending on choices made for general education or minor selection.


### COURSES IN MAJOR (36-39 credits total)

**Major Core Courses (15 credits)**

GPH	115	Global Climate Change	3	
GPH	115H	Honors Global Climate Change	3	
GPH	105	Introduction to Geography	3	
GPH	105H	OR Foundations of Global studies		
GPH	110	OR World Regions		
GPH	140	Intro to Maps & GIS	3	
GPH	301	Intro to Quantitative Geography	3	
GPH	302	Geographic Research	3	

**Major Concentration Courses (9 credits)**

GPH	245	Cartography	3	
GPH	340	GIS	3	
GPH	344	Remote Sensing	3	

**Techniques Electives (6-9 credits)**

GPH	343	Drones and Aerial Imagery: Applications and Image Analysis	3	
GPH	346	GIS and Business	3	
GPH	347	GIS Applications	3	
GPH	442	Programming for GIS	3	
GPH	410	Internship in Geography	3-6	
GPH	444	Digital image Processing	3	
GPH OR CRJ	348 370	Crime Mapping	3	

**Geography Electives (6 credits)**

†GPH		Geography Elective	3	
‡GPH		Geography Elective	3	

- ♥ Students may choose to use support courses to satisfy general education categories, but may not be required to do so. **Note:** If a course is used to satisfy two or more requirements (for example, a support course and Scientific Reasoning requirement), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the credit total required for graduation
- ♣ Courses used to satisfy the general education requirements of the university must be taken from a minimum of six different academic disciplines. First Year Seminar and Level I Written Communications courses are exempt from this restriction. Courses may not be used to fulfill both major discipline and general education requirements.
- # These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline.
- ‡ Level II, Level III Written Communications and Diversity, Power Dynamics and Social Justice Courses may be used to satisfy requirements anywhere else in a student's program of study where they may apply. The credits are counted only in one area.
- † Course must be Above 200 Level.
- ‡ Course must be Above 300 Level.

◆ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS	◆ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS
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Exceptions in the timing of courses will be made for transfer students

Total credits for graduation: 120

Effective: 9/2021