

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"/>

**COURSES IN MAJOR (42 credits total)**

**Major Core Courses (15 credits)**

GPH	115	Global Climate Change	3
GPH	105	Introduction to Geography	3
GPH	110	World Regions	
GPH	140	Intro to Maps & GIS	3
GPH	301	Intro to Quantitative Geography	3
GPH	302	Geographic Research	3

**Major Concentration Courses (15 credits)**

GPH	245	Cartography	3
GPH	340	GIS	3
GPH	344	Remote Sensing	3
GPH	446	Advanced GIS	3
GPH	343	Air Photo Interpretation OR	3
GPH	444	Digital Image Processing	

**Techniques Electives (6 credits)**

GPH	343	Air Photo Interpretation OR	3
GPH	444	Digital Image Processing	
GPH	346	GIS and Business	3
GPH	347	GIS Applications	3
GPH	442	Geospatial Programming	3

**Geography Electives (6 credits)**

GPH		Geography Elective	3
GPH		Geography Elective	3

**Minor/Free Electives (43 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.


♥ 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.

♦ 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