

Name:
Student ID:
Date Admitted Into Major:

BACHELOR OF SCIENCE CARTOGRAPHY AND GIS

GENERAL EDUCATION REQUIREMENTS						
Competencies						
□ ◆Ba	sic College M	ath				
□ ◆Re	ading Compre	ehension				
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◆General Education Categories (34-35 credits total)						
♦FYS	First Year Ser	minar			3	
♦W-I	Written Comm			3		
◆OC	Oral Commun			3		
PGR	Personal Gro			3		
CEA	Creative Expr			3		
WC	World Culture			3		
HP	The Human F			3		
CS	Contemporar	y Society			3	
SR	Scientific Reasoning:	# Any SR course			3-4	
SK		# SR Lab course			4	
QR	Quantitative F	Reasoning			3	
# Written Communication (Level II and Level III) and Diversity, Power Dynamics and Social Justice						
W-II	Written Comm]	
W-III	Written Comm]	
DPDS	Diversity, Pov Social Justice]	

ı	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.					
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COURSES IN MAJOR (36-39 credits total) Major Core Courses (15 credits)

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GPH	115	Global Climate Change	3	
		OR		
GPH	115H	Honors Global Climate	3	
		Change		
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	348				
OR		Crime Mapping	3		
CRJ	370				
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.

♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS

Effective: 9/2019