Cover Sheet: Request 9946

Changes to Geography major recommended semester plans

Info

11110	
Process	Major Curriculum Modify Ugrad / Pro
Status	Pending
Submitter	O'Sickey,Lynn B losickey@advising.ufl.edu
Created	1/16/2015 5:04:33 PM
Updated	2/25/2015 2:18:34 PM
Description	The changes are the inclusion of the State Gen Ed Core in the recommended semester plan for this major.
	In the catalog copy, we made some edits for clarity and consistency with other CLAS majors – adding in the credits each required course is worth, dividing major requirements into categories, and corrections of typographical errors. There are no changes to the major requirements, just changes to how they are presented.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CLAS -	Binford,		1/16/2015
		011609000	Michael W.		
College	Approved	CLAS - College	Pharies, David		1/18/2015
		and Sciences			
University	Comment	PV - University	Adams,	UCC GE Subcommittee:	2/25/2015
Committee		Committee		changes.	
		(UCC)			
University	Pending	PV - University			2/25/2015
Curriculum		Curriculum			
Committee		Committee			
		(UCC)			
Office of the					
Registrar					
Student					
Academic					
Support					
System					
Catalog					
Academic					
Assessment					
Committee					
Notified					
College					
Notified					

UF FLORIDA

Modify the Curriculum of a Major

This process should be used to change the required or elective coursework in a graduate or professional major, or the eight-semester plan or critical tracking in an undergraduate major. To change the total credits, limited access status, major name, delivery platform or funding model, follow the procedures at http://approval.ufl.edu. Instructions for completing this form are on the last page.

Maj	or to be Modified				
1.	Major Name	Geography	2.	Major Code	GPY
3.	Degree Program I	Name Bachelor of Arts and Bachelor of Science			
4.	Effective Term	Summer B 2015			

5. Proposed Changes

The changes are the inclusion of the State Gen Ed Core in the recommended semester plan for this major.

In the catalog copy, we made some edits for clarity and consistency with other CLAS majors – adding in the credits each required course is worth, dividing major requirements into categories, and corrections of typographical errors. There are no changes to the major requirements, just changes to how they are presented.

6. Pedagogical Rationale/Justification

Changes mandated by the State

7. Projected Impact on Initial Enrollment, Retention, Graduation

None

- Prepare a document showing the catalog copy with the current and proposed curricula either in a side-byside comparison or edited using the "track changes" feature in Word.
- Prepare supporting documentation from other colleges indicating availability of seats in courses that are affected by the change in credits and support for the proposed application, if overlap is a concern.

Instructions

Please note: this form should be used to request a change in the required or elective coursework in an undergraduate or professional major, or the eight-semester plan or critical tracking in an undergraduate major. To change the total credits, limited access status, major name, delivery platform or funding model, follow the procedures at http://approval.ufl.edu.

Major to Be Modified

- 1. Enter the name of the major. Example: "Mathematical Modeling"
- 2. Enter the two-letter or three-letter major code.
- 3. Enter the name of the degree program in which the major is offered.
- 4. Enter the term (semester and year) that the curriculum change would be effective.

Proposed Changes

5. Describe the proposed changes to the curriculum.

Pedagogical Rationale/Justification

6. Describe the rationale for the proposed changes to the curriculum.

Projected Impact on Initial Enrollment, Retention, Graduation

7. Describe any potential impact of the curriculum changes on students who are currently in the major.

Geography

<u>Geography is the science of place, space, and environment.</u>

Each place on earth is distinguished by a unique mix of natural resources, cultural practices, and socio-economic and political systems. Geographers study what makes each place unique, as well as the connections and interactions between places.

G eography provides an understanding of issues across the human-environmental interface and skills that are in demand in today's job market. Techniques such as geographic information systems (GIS), remote sensing, air photo interpretation, database handling, and computer-based cartography are used in regional planning, map production, and environmental assessment.

About This Major

- College: Liberal Arts and Sciences
- Degree: Bachelor of Arts and Bachelor of Science
- Credits for Degree: 120
- **Specialization:** Geography B.A., Geography Environmental Geosciences B.A., Geography B.S.
- Minor: Yes
- Combined-Degree Program: Yes
- Academic Learning Compact: Geography (B.A. & B.S.)
- Website: <u>www.geog.ufl.edu/undergrad/overview.html</u>

Overview

Geography offers exciting undergraduate degrees at UF, and as a geography student you learn from world-renowned faculty, award-winning teachers and mentors, and contribute to groundbreaking research, all while studying topics that have great environmental and social significance. Geography is a highly interdisciplinary department on the UF campus. It is also an integrated discipline, bringing together nature and society. Geography is also an extremely hands-on discipline with a strong emphasis on computer-based tools and field studies. Above all, Geography is "spatial" and everything has a spatial component. Therefore, as a Geographer, you can choose to study an enormous range of subjects. Knowing where things are, why they got there, and how they work is critical to understanding our world today and how it is changing – this is Geography.

<u>Geography majors use the lenses of space and place to examine issues as diverse as</u> <u>climate variability and change on the African continent, malaria outbreaks in Africa and</u> <u>South America, deforestation and land conflict in the Amazon, and the origin and</u>

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spread of blues music in the Southeastern United States. Across the globe they study tropical cyclones, river restoration, forecasting disease outbreaks, the role of parks and protected areas on the landscape, land cover change analysis and modeling, forest management and fragmentation, community conservation, emerging infectious diseases, environmental influences on the elderly and economic development in national, regional, and global economies.

The practical and flexible curriculum, small class sizes, computer-based learning, strong faculty and coursework in several areas of general education make this major appealing to students who want to develop skills linked to employment or preparation for entry to professional schools (e.g., law, medicine, business, etc.). The department's computer laboratories are available to undergraduate majors when not used for classes.

Geography majors learn about the Earth's physical environment including climate, weather, water and landforms and they learn to understand social, cultural and economic concepts from a spatial perspective. They also learn to integrate information about relationships between environment and society. These skills and the geographic perspective also open doors to employment in government agencies and private firms that deal with urban and regional planning, water management, environmental and market analysis, mapping, medical geography, foreign service and education.

Coursework for the Major

The geography major has three different specializations: the Bachelor of Arts, the Bachelor of Science and the Bachelor of Arts in environmental geosciences (a joint program with the Department of Geological Sciences). Coursework for the major will depend upon the specialization, which are all flexible.

Students must carn a minimum grade of C in all coursework for the major.

Students who are uncertain of a specialization should contact the Department of Geography's undergraduate coordinator for information and curriculum planning.

The Bachelor of Arts in geography requires 334-375 credits of coursework in geography, plus 3 credits of STA2023. It is best suited for students interested in careers in urban and regional planning, business geography, medical geography and geographic education or for students who want a broad overview of the discipline with a focus on human geography.

The **Bachelor of Arts in environmental geosciences** requires a minimum of 38-43 credits of coursework. This joint program between the Department of Geography and the Department of Geological Sciences is intended for students interested in land and water aspects of the environment. The degree focuses on human impacts, water and mineral resource exploitation and management, disasters, environmental planning, earth science education or environmental law.

The Bachelor of Science in geography requires 5130-352 credits of geography coursework, combining physical geography coursework with and 24-254 credits of coursework in physics,

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Commented [OB2]: Corrected totals

Commented [OB3]: Corrected totals

chemistry, geology and soils. This specialization is best suited for someone who wishes to pursue a career in environmental consulting or graduate work in physical geography or related natural sciences, including atmospheric science, geosciences, hydrologic sciences or meteorology.

Required Coursework

All majors take some techniques courses, including GEO 3162C and a minimum of two additional courses that involve working with data and computers. All majors take a regional course, focusing on the countries, cultures and landscapes of one region in the world. The systematic courses include specialized courses in human or environmental/physical geography, but majors can also take additional techniques courses as part of this requirement. Students can concentrate coursework in economic geography and planning, environmental/physical geography, geography, geospatial technologies, medical geography or natural resource management.

Coursework for the major will depend upon the degree program. Courses for each specialization are listed below under Critical Tracking and Recommended Semester Plan.

Back to Top

Bachelor of Arts Bachelor of Arts: Environmental Geosciences Bachelor of Science

Bachelor of Arts

Students must earn a minimum grade of C in all coursework for the major.

To graduate with this major, students must complete all university, college and major requirements. For degree requirements outside of the major, refer to CLAS Degree Requirements: <u>Structure of a CLAS Degree</u>.

Required Course<u>works</u>

- GEO 2200 and 2200L Physical Geography and Physical Geography Laboratory, <u>4 credits</u>
- One course from GEO 2410 Social Geography, GEO 2420 Introduction to Human Geography or GEO 2500 Global and Regional Economies. <u>3 credits</u>
- GEO 3162C Introduction to Quantitative Analysis for Geographers, 4 credits
- Two courses from GEO 4167C Intermediate Quantitative Analysis, GIS 4001C Maps and Graphs, GIS 3043 Foundations of Geographic Information Systems, GIS 4021C Air Photo Interpretation, GIS 4037 Digital Image Processing, 6-8 credits
- One course from GEA 2210 Geography of the United States and Canada, GEA 2270 Geography of Florida, GEA 3223 Historical Geography of the United States, GEA 3405 Geography of Latin America, GEA 3500 Geography of Europe, GEA 3600 Geography of Africa, GEA 4465 Amazonia, 3 credits
- GEO 4930 Senior Seminar, 1 credit
- Four courses, <u>12 credits minimum</u>, from



- o__GEO 2242 Extreme Weather,
- o___GEO 2426 Popular Music and Culture: A Geographic Perspective,
- GEO 3250 Climatology,
- o __GEO 3280 Principles of Geographic Hydrology,
- o GEO 3315 Geography of Crops Plants,
- o__GEO 3341 Extreme Floods,
- o GEO 3352 The Human Footprint on Landscape,
- o GEO 3372 Conservation of Resources,
- o GEO 3427 Plants, Health, and Spirituality,
- o__GEO 3430 Population Geography,
- o___GEO 3452 Introduction to Medical Geography,
- GEO 3502 Economic Geography,
- o___GEO 3602 Urban and Business Geography,
- o_GEO 3611 Housing, People, and Places in a Spatially Diverse America,
- __GEO 3803 Geography of Alcohol,
- o___GEO 3930 Special Topics,
- o_GEO 4167C Intermediate Quantitative Analysis for Geographers,
- o___GEO 4281 Fluvial Morphology and Processes,
- o___GEO 4285 Models in Geographic Hydrology,
- o GEO 4300 Environmental Biogeography,
- o__GEO 4554 Regional Development,
- o__GEO 4612 Shelter and Care Options for U.S. Elderly,
- o GEO 4620 Business Geography Integrating Theory,
- o__GEO 4970 Honors Thesis,
- o GEO 4938 Selected Topics in Geography,
- o GIS 3043 Foundations of Geographic Information System,
- o GIS 3420C GIS Models for Public Health,
- o GIS 4021C Air Photo Interpretation,
- o GIS 4037 Digital Image Processing,
- o_GLY 4734 Coastal Morphology and Processes,
- MET 3503 Weather and Forecasting,
- o_MET 4532 Hurricanes,
- o____MET 4560 Atmospheric Teleconnections,
- •—MET 4750 Atmospheric Data Analysis
- One course from GEA 2210 Geography of the United States and Canada, GEA 2270 Geography of Florida, GEA 3223 Historical Geography of the United States.

GEA 3405 Geography of Latin America, GEA 3500 Geography of Europe, GEA 3600 Geography of Africa, GEA 4465 Amazonia

Related Coursework

STA 2023 Introduction to Statistics 1

The same course may <u>not</u> be used to satisfy requirements for more than one bulleted group.

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Critical Tracking

<u>To graduate with this major, students must complete all university, college and major</u> requirements. For degree requirements outside of the major, refer to CLAS Degree <u>Requirements: Structure of a CLAS Degree.</u>

Equivalent critical-tracking courses as determined by the State of Florida <u>Common Course</u> <u>Prerequisites</u> may be used for transfer students

Semester 1

• 2.0 UF GPA required

Semester 2

• 2.0 UF GPA required

Semester 3

- Complete 1 geography course (GEA 1000 not acceptable)
- 2.0 UF GPA required

Semester 4

- Complete 1 additional geography course (1 of the 2 must be GEO 2200; GEA 1000 not acceptable) or complete STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses (STA 2023 and 2 geography courses, 1 of which must be GEO 2200; GEA 1000 not acceptable) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Recommended Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

Semester 1	Credits

GEO 2410 Social Geography (GE-S and D) or GEO 2420 Introduction to Human Geography (GE-S and N) or GEO 2500 Global and Regional Economics (GE S)				
Biological Natural Sciences (State Core Biologica	al Science	GE-B)	3	
Composition (<u>State Core GE-C</u> , WR)		<u></u>	3	
Foreign language			4-5	
		Total	13-14	
Semester 2			Credit	
GEO 2200 and 2200L Physical Geography (3) and Physical Geography Laboratory (1) (GE-P)				
HUM 2305 What is the Good Life (GE-H)			3	
STA 2023 Introduction to Statistics 1 (GE-M)			3	
Foreign language	Foreign language			
		Total	13-15	
Semester 3	Credits			
GEO 3000 level (Systematic)	3			
Biological Science (GE-B)	3			
Composition (GE-C, WR)	3			
Electives (or foreign language if 4-3-3 option)	3			

Social and Behavioral Sciences (State Core GE-S) 3

Semester 4

Electives (3000 level or above, not in major) 3

GEO 3000/4000 level (Systematic)

Humanities (State Core GE-H)

Electives

1

Mathematics (<u>State Core_</u> GE-M)	3				
Total	15				
Semester 5				Cree	dits
GEA 2000/4000 level (Regional)				3	
GEO 3162 Introduction to Quantitative Anal	ysis for	Geograpl	ners (GE-1	P) 4	
Electives (3000 level or above, not in major)				6	
Social and Behavioral Sciences (GE-S)				3	
			Tot	al 16	
Semester 6			Credits		
GEO 3000/4000 level (Systematic)			3		

Total 15

3

3

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Commented [OB4]: Specifying they should take a Biological Science for State Core since the Physical Science requirement will be met with the major courses.

GIS 3043 Foundations of Geographic Information Systems or GIS 4001 Maps and Graphs	4
Elective	3
Elective (3000 level or above, not in major)	3
Humanities (GE-H)	3
Total	16

Semester 7	Credits
GEO 4930 Senior Seminar	1
GEO/GIS 4000 level (Technique) *	3-4
Elective (3000 level or above, not in major)	3
Electives	6
Social and Behavioral Sciences (GE-S)	3
Total	16-17
Semester 8	Credits
GEO 3000/4000 level (Systematic)	3
Elective (3000 level or above, not in major)	3
Electives *	10
Total	16

* Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Back to Top

Bachelor of Arts: Environmental Geosciences Specialization

Students must earn a minimum grade of C in all coursework for the major.

To graduate with this major, students must complete all university, college and major requirements. For degree requirements outside of the major, refer to CLAS Degree Requirements — <u>Structure of a CLAS Degree</u>.

Required Courseworks

- GEO 2200 and GEO 2200L Physical Geography and Physical Geography Laboratory. <u>4</u>
 <u>credits</u>
- GIS 3043 Foundations of Geographical Information Systems, 4 credits
- GLY 2010C Physical Geology, 4 credits
- GLY 2100C Historical Geology or GLY 3105C Evolution of Earth and Life in America.
 <u>4 credits</u>



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• STA 2023 Introduction to Statistics, 3 credits

Critical Tracking

<u>To graduate with this major, students must complete all university, college and major</u> requirements. For degree requirements outside of the major, refer to CLAS Degree <u>Requirements — Structure of a CLAS Degree.</u>

Equivalent critical-tracking courses as determined by the State of Florida <u>Common Course</u> <u>Prerequisites</u> may be used for transfer students

Semester 1

• 2.0 UF GPA required

Semester 2

- Complete one critical-tracking course with laboratory (GEO 2200/2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 3

- Complete the other critical-tracking course with laboratory (GEO 2200/2200L or GLY 2010C) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 4

- Complete STA 2023 and maintain a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete two additional GLY or GEO courses with a 2.5 critical-tracking GPA. Recommended GLY courses include GLY 2100C or GLY 3105C. Recommended GEO courses include GEO 3250, GEO 3280, GEO 3315, GEO 3341, GEO 3352, GEO 3372 or MET 3503.
- 2.0 UF GPA required

Recommended Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

Semester 1	Credits
HUM 2305 What is the Good Life (GE-H)	3
Composition (State Core GE-C, WR)	3
Elective *	3
Foreign language	4-5
Mathematics (State Core GE-M)	3
Total	16-17
Semester	r 2

GEO 2200 and 2200L Physical Geography (3) (GE-P) and Physical Geography Laboratory (1) (GE-P) or GLY 2010C Physical Geology (4) (GE-P)				4
Biological Natural Sciences (State Core Biolo	gical Scie	ence GE-B)		3
Foreign language				3-5
Social and Behavioral Sciences (State Core G	E-S)			3
			Total	13-15
Semester 3				Credits
GEO 2200 and 2200L Physical Geography (3) Laboratory (1) (GE-P) or GLY 2010C Physical Geology (4) (GE-P)) (GE-P) a	and Physical	Geography	4
Elective				
Elective (or foreign language if 4-3-3 option)				3
Humanities (State Core_GE-H)				3
Social and Behavioral Sciences (GE-S)				3
			Total	16
Semester 4	Credits			
STA 2023 Introduction to Statistics 1 (GE-M)	3			
Biological Science (GE-B)	3			
Elective	3			
Humanities (GE-H)	3			
Social and Behavioral Sciences (GE-S) 3				
Total	15			
Semester 5		Credits		
GIS 3043 Foundations of Geographic Informa	tion Syst	ems 4		
GLY 2100C Historical Geology or GLY 3105C Evolution of Earth and Life (both	n GE-P)	4		

6 Total 14

Credits

Credits

3-4

3 3-4

Total 15-16

Electives (3000 level or above, not in major)

Semester 6

Electives (3000 level or above, not in major) 9

Semester 7

GLY 3202C Earth Materials

Geography elective, from list

Geography elective, from list

1

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Geology elective, from list					
Electives *			6		
Electives (3000 level or above	e, not in 1	najor)	3		
	Total				
Semester 8	Credits				
GEO 4930 Senior Seminar	1				
Geography elective, from list	3-4				
Geology elective, from list	3-4				
Electives *	9				
Total	16-18				

* Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

Back to Top

Bachelor of Science

Students must earn a minimum grade of C in all coursework for the major.

To graduate with this major, students must complete all university, college and major requirements. For degree requirements outside of the major, refer to CLAS Degree Requirements: <u>Structure of a CLAS Degree</u>.

Required Courseworks

- CHM 1025 Introduction to Chemistry or CHM 1030 Basic Chemistry Concepts and Applications
- GEO 2200 and 2200L Physical Geography and Physical Geography Laboratory, <u>4 credits</u>
- GEO 3162C Introduction to Quantitative Analysis for Geographers, 4 credits
- GEO 4930 Senior Seminar, 1 credit
- One course from GEO 2410 Social Geography, GEO 2420 Introduction to Human Geography or GEO 2500 Global and Regional Economies, <u>3 credits</u>
- Two courses from GEO 4167C Intermediate Quantitative Analysis, GIS 3043
 Foundations of Geographic Information Systems, GIS 4001C Maps and Graphs, GIS 4021C Air Photo Interpretation, GIS 4037 Digital Image Processing, 6-8 credits
- One course from GEA 2210 Geography of the United States and Canada, GEA 2270 Geography of Florida, GEA 3223 Historical Geography of the United States, GEA 3405 Geography of Latin America, GEA 3500 Geography of Europe, GEA 3600 Geography of Africa, GEA 4465 Amazonia, 3 credits

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•____Three courses, 9 credits minimum, from

o_GEO 3250 Climatology,

o___GEO 3280 Principles of Geographic Hydrology,

o ___GEO 3315 Geography of Crop Plants,

o_GEO 3341 Extreme Floods,

o GEO 3352 Human Footprint on the Earth,

o GEO 3372 Conservation Resources,

- o ___GEO 3452 Introduction to Medical Geography,
- GEO 4167C Intermediate Quantitative Analysis,

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GEO 4281 Fluvial Morphology and Processes,

o___GEO 4285 Models in Geographic Hydrology,

o___GEO 4938 Selected Topics,

o___GEO 4970 Honors Thesis,

o GIS 3043 Foundations of Geographic Information Systems,

o GIS 3420C GIS Models for Public Health,

• GIS 4021C Air Photo Interpretation,

o ____GIS 4037 Digital Image Processing,

• MET 3503 Weather and Forecasting,

• MET 4532 Hurricanes,

• MET 4560 Atmospheric Teleconnections

•<u>o</u>_and-MET 4750 Atmospheric Data Analysis

• One course from GEA 2210 Geography of the United States and Canada, GEA 2270 Geography of Florida, GEA 3223 Historical Geography of the United States, GEA 3405 Geography of Latin America, GEA 3500 Geography of Europe, GEA 3600 Geography of Africa, GEA 4465 Amazonia The same course may not be used to satisfy requirements for more than one bulleted group.

Related Coursework

 <u>CHM 1025 Introduction to Chemistry or CHM 1030 Basic Chemistry Concepts and</u> <u>Applications, 2-3 credits</u>

- •
- GLY 2010C Physical Geology, 4 credits
- MET 1010 Introduction to Weather and Climate, 3 credits
- PHY 2004 and 2004L Applied Physics 1 and laboratory, 4 credits
- PHY 2005 and 2005L Applied Physics 2 and laboratory, 4 credits
- STA 2023 Introduction to Statistics, 3 credits

• SWS 3022 and 3022L Intro to Soils in the Environment and laboratory, 4 credits

<u>The same course may not be used to satisfy requirements for more than one bulleted group.</u>

Critical Tracking

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<u>To graduate with this major, students must complete all university, college and major</u> requirements. For degree requirements outside of the major, refer to CLAS Degree <u>Requirements: Structure of a CLAS Degree.</u>

Equivalent critical-tracking courses as determined by the State of Florida <u>Common Course</u> <u>Prerequisites</u> may be used for transfer students

Semester 1

• 2.0 UF GPA required

Semester 2

- Maintain 2.0 UF GPA
- 2.0 UF GPA required

Semester 3

- Complete 1 geography course (GEA 1000 not acceptable)
- 2.0 UF GPA required

Semester 4

- Complete 1 additional geography course (1 of the 2 must be GEO 2200; GEA 1000 not acceptable) or complete STA 2023 with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses (STA 2023 and 2 geography courses, 1 of which must be GEO 2200; GEA 1000 not acceptable) with a 2.5 critical-tracking GPA
- 2.0 UF GPA required

Recommended Semester Plan

Students are expected to complete the writing requirement while in the process of taking the courses below. Students are also expected to complete the general education international (GE-N) and diversity (GE-D) requirements concurrently with another general education requirement (typically, GE-C, H or S).

Semester 1	Credits
GEO 2200 and 2200L Physical Geography (3) and Physical Geography Laboratory (1) (GE-P)	4
MET 1010 Introduction to Weather and Climate (GE-P)	3

		1		
Composition (State Core GE-C, WR)	3			
Foreign language	5			
T	Total 15			
Semester 2	Credits			
CHM 1025 Introduction to Chemistry (2) or CHM 1030 Basic Chemistry Concepts and Applications 1 (3) (GE-	P) ²⁻³			
GEO 2410 Social Geography (GE-S and D) or GEO 2420 Introduction to Human Geography (GE-S and N) or GEO 2500 Global and Regional Economies (GE-S)	3			
HUM 2305 What is the Good Life (GE-H)	3			
Foreign language	5			
Tot	tal 13-14			
Semester 3			Credits	
PHY 2004 and 2004L Applied Physics 1 (3) and Applied Physics 1 (GE-P)	Laboratory (1)	4	
STA 2023 Introduction to Statistics 1 (GE-M)			3	
Elective			3	
Humanities (State Core GE-H)			3	
		Tota	1 13	
Semester 4			Credits	
GEO/MET 3000/4000 level (Systematic)			3	
PHY 2005 and 2005L Applied Physics 2 (3) and Applied Physics 2 (GE-P)	Laboratory (1)	4	
Composition (GE-C, WR)			3	
Elective			3	
Mathematics (State Core GE-M)			3	
		Tota	l 16	
Semester 5	Cred	lits		
CEA 2000/4000 lavel (Begional)				
UEA 2000/4000 level (Regional)	3			
GEO 3162C Introduction to Quantitative Analysis for Geographers	3 (GE-P) 4			
GEO 3162C Introduction to Quantitative Analysis for Geographers Biological Natural Science (State Core Biological Science GE-B)	3 (GE-P) 4 3			Commented [OB6]: Specifying they should take a
GEO 3162C Introduction to Quantitative Analysis for Geographers Biological-Natural Science (State Core Biological Science GE-B) Elective (3000 level or above, not in major)	3 (GE-P) 4 3 3			Commented [OB6]: Specifying they should take a Biological Science for State Core since the Physical Science for universe the major courses
GEA 2000/4000 level (Regional) GEO 3162C Introduction to Quantitative Analysis for Geographers Biological-Natural Science (State Core Biological Science GE-B) Elective (3000 level or above, not in major) Social and Behavioral Sciences (State Core GE-S)	3 (GE-P) 4 3 3 3			Commented [OB6]: Specifying they should take a Biological Science for State Core since the Physical Scierequirement will be met with the major courses.
GEO 3162C Introduction to Quantitative Analysis for Geographers Biological-Natural Science (State Core Biological Science GE-B) Elective (3000 level or above, not in major) Social and Behavioral Sciences (State Core GE-S)	3 (GE-P) 4 3 3 3 Total 16			Commented [OB6]: Specifying they should take a Biological Science for State Core since the Physical Science requirement will be met with the major courses.
GEO 3162C Introduction to Quantitative Analysis for Geographers Biological-Natural Science (State Core Biological Science GE-B) Elective (3000 level or above, not in major) Social and Behavioral Sciences (State Core_GE-S) Semester 6	3 (GE-P) 3 3 3 10 Total 16			Commented [OB6]: Specifying they should take a Biological Science for State Core since the Physical Scierequirement will be met with the major courses.

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GIS 4001C Maps and Graphs (4) or GIS 3043 Foundations of Geographic Information Systems (Technique)	4		
GLY 2010C Physical Geology (GE-P)	4		
Elective (3000 level or above, not in major)	3		
Humanities (GE-H)	3		
Total	17-18		
Semester 7			Credits
GEO 4930 Senior Seminar			1
GEO/MET 3000/4000 level (Systematic)			3
SWS 3022 and 3022L Introduction to Soils in the Environment (3) and Introduction to Soils in the Environment Laboratory (1) (GE-P)			4
Elective *			1
Electives (3000 level or above, not in major)			6
		Total	15

Semester 8	Credits
GEO/GIS 3000 level or above (Technique)	3-4
Biological Science (GE-B)	3
Electives (3000 level or above, not in major)	6
Social and Behavioral Sciences (GE-S, if needed)	3
Total	15-16

* Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.