

Major Map: Geological Sciences – Bachelor of Science (B.S.) Intensive Geology Concentration College of Arts and Sciences School of Earth, Ocean & Environment Catalog Year: 2018-2019

This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study.

,	otes section for details regarding "critical courses" for this part	Credit	Min.	Major		<b>D</b>	3.7
ritical		Hours	Grade <sup>1</sup>	GPA <sup>2</sup>	Code	Prerequisites	Notes
	ter One (13-14 Credit Hours)	2	C	1	CC CMW		
	ENGL 101 Critical Reading and Composition	3	C		CC-CMW		
	MATH 122 Calculus for Bus. Admin. & Soc. Sciences	3-4	С		CC-ARP		
	or MATH 141 Calculus I <sup>3</sup>					MATH 115 (MATH 141); or Math	
						placement test score	
	GEOL 101 Introduction to the Earth	4			PR		
	or GEOL 103 Environment of the Earth						
	or GEOL 201 Observing the Earth (fall only)						
	UNIV 101 The Student in the University	3			PR/CC		
	or Carolina Core Requirement <sup>4</sup>				,		
emest	ter Two (16-17 Credit Hours)						
	ENGL 102 Rhetoric and Composition	3	С	1	CC-CMW	C or better in ENGL 101	
•	En volt 102 functorie and composition	~	Ŭ		CC-INF		
	MATH 170 Finite Mathematics	3-4	С		CC-ARP	MATH 111/1111 or 112 or Math	
		3-4	C		CC-ARP		
	or MATH 142 Calculus II					placement test score <i>(MATH 170)</i> ;	
						MATH 141 <i>(MATH 142)</i>	
	CHEM 111 & 111L – General Chemistry I	4			CC-SCI	MATH 115 or Math placement test score	
	History <sup>5</sup>	3			CR		
	Foreign language6 or other Carolina Core Requirement4	3			CC-GFL		
	ter Three (15 Credit Hours)						
	GEOL 302 Rocks and Minerals (fall only)	4	С		MR	GEOL 101, 103, or 201 (CHEM 111	
						recommended)	
	GEOL 305 Earth Systems through Time (fall only)	4	С		MR		
	PHYS 201 & 201L – General Physics I	4	0		CC-SCI	C or better in MATH 111/111i/112/	
	or PHYS 211 & 211L – Essentials of Physics I	-			CC-5CI	115/116/122/141 or higher (PHYS 201);	
	m FIIIS 211 & 211L – Essentials of Flysics 1					MATH 141 (PHYS 211)	
		2			CC CEL	MATH 141 (PH13 211)	
	Foreign language <sup>6</sup> or other Carolina Core Requirement <sup>4</sup>	3			CC-GFL		
	ter Four (14 Credit Hours)	I .		Ĩ			
	GEOL 335 Processes of Global Envr. Change (cross-	4	С		MR		
	listed: MSCI 335)						
	PHYS 202 & 202L – General Physics II	4			PR	See Bulletin listing.	
	or PHYS 212 & 212L – Essentials of Physics II						
	or CHEM 112 & 112L – General Chemistry II						
	or BIOL 101 & 101L – Biological Principles I						
	Cognate Course <sup>7</sup>	3			PR		
	Foreign language <sup>6</sup> or Carolina Core Requirement <sup>4</sup>	3			CR/CC		
mest	ter Five (15 Credit Hours)				311/ 33		
	GEOL 355 Structural Geol. & Tectonics (fall only)	4	С	[	MR	GEOL 302 & PHYS 201 or 211	
		4	C		MR	GEOL 302	
	GEOL 325 Stratigraphy & Sed. Basins <i>(fall only)</i>		C				
	PHYS 202 & 202L – General Physics II	4			PR	See Bulletin listing.	
	or PHYS 212 & 212L – Essentials of Physics II						
	or CHEM 112 & 112L – General Chemistry II						
	or BIOL 102 & 102L – Biological Principles I						
	Carolina Core Requirement <sup>4</sup>	3			CC		
emest	ter Six (17 Credit Hours)						
	GEOL 315 Surface & Near Surface Proc. (spring only)	4	С		MR	PHYS 201 or 211	
	GEOL 345 Igneous & Metamorphic Proc. (spring only)	4	С		MR	GEOL 302 & MATH 122 or 141	
	Cognate Course <sup>7</sup>	3	1	1	PR		
	STAT 201 Elementary Statistics	3			CR	MATH 111, 115 or STAT 110 (STAT	
	or STAT 509 Statistics for Engineers				U.C.	201); MATH 142 <i>(STAT 509)</i> ; MATH	
	or STAT 515 Statistical Methods I					141 or 115 & a stat. class (STAT 515)	
	Carolina Core Requirement <sup>4</sup>	3			CC	1 11 0/ 115 C a stat. Class (51/11 )1)	
		3					
mest	ter Seven (12-15 Credit Hours)	2	C	1	1 (D		
	GEOL Major Elective (399 or above)	3	С		MR	See Bulletin listing.	
	Cognate Course <sup>7</sup>	3			PR		
	CSCE 102 General Applications Programming	3			CR		
	Humanities or Fine Arts	3			CR		
	Carolina Core Requirement <sup>4</sup> or Approved Elective <sup>8</sup> (only	0-3			CC/PR		
	if needed to meet CC or hours to graduate)	1	1	1	, í		

Cognate Course <sup>7</sup>	3		PR	
GEOL Major Elective (399 or above)	3	С	MR	See Bulletin listing.
GEOL Major Elective (399 or above)	3	С	MR	See Bulletin listing.
Social Science	3		CR	
Carolina Core Requirement <sup>4</sup> or Approved Elective <sup>8</sup> (only	0-3		CC/PR	
if needed to meet CC or hours to graduate)				
Summer (6 Credit Hours)				
GEOL 500 Field Geology <sup>9</sup> (summer only)	6	С	MR	GEOL 325 & 355
			CC-INT	

## Graduation Requirements Summary

Minimum Total Hours	Minimum Major Requirements Hours	College & Program Requirements Hours	Carolina Core Hours	Minimum Institutional GPA
120	43	39-45	32-44	2.000

1. Regardless of individual course grades, students must maintain a minimum 2.000 cumulative GPA.

Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study.
Students who place into MATH 111 or 115 will be required to complete it successfully before taking MATH 122 or 141. MATH 111/115 may be used as an approved elective. Students who start with MATH 111/115 should use the following sequence for the first three semesters:

Semester One	Semester Two	Semester Three
ENGL 101	ENGL 102	GEOL 305
GEOL 101, 103 or 201	MATH 122 or 141	GEOL 302
MATH 111 or 115	CHEM 111 & 111L	MATH 170 or 142
UNIV 101 or Carolina Core Requirement	History	PHYS 201 & 201L or 211 & 211L
	Foreign Language or other Carolina Core Req.	Foreign language or Carolina Core Req.

4. The Carolina Core provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.

5. The College of Arts and Sciences requires one U.S. History and one non-U.S. History course, both of which must be chosen from the approved Carolina Core GHS courses. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.

- 6. Students in the College of Arts and Sciences are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding foreign language placement score.
- 7. The cognate is intended to support the course work in the major. The cognate must consist of twelve hours of courses at the advanced level, outside of, but related to the major. A minor or second major eliminates the cognate requirement.
- 8. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.
- 9. GEOL 500 is a summer course, which takes place in Colorado. Students must indicate to the SEOE undergraduate office their plans to attend field camp in January, which is prior to registering for GEOL 500.

## **Program Notes:**

- Courses identified as "critical" must be completed in the student's first 60 semester hours of work in order for these courses to be credited toward graduation.
- A Degree with Distinction is available to students majoring in Geological Sciences who wish to participate in significant research activities in their major field under the supervision of a faculty mentor. Requirements include: 1) a minimum GPA of 3.5 in the major and 3.3 overall; 2) written sponsorship agreement from the faculty mentor on file in the SEOE Undergraduate Student Services office; 3) a public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the degree program; and 4) three courses in addition to the major requirements, including: GEOL 498 *or* GEOL 499, GEOL 699, and a minimum of one GEOL 500-level course appropriate to the research.
- The last 30 credit hours toward your degree must be earned in residence at the University of South Carolina-Columbia.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the <u>Carolina Core</u> page on the University website.

Codes:			
CC	Carolina Core	CC-INF	Carolina Core – Information Literacy
CC-AIU	Carolina Core-Aesthetic and Interpretive Understanding	CC-INT	Carolina Core – Integrative Course
CC-ARP	Carolina Core-Analytical Reasoning and Problem-Solving	CC-SCI	Carolina Core – Scientific Literacy
CC-CMS	Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component	CC-VSR	Carolina Core - Values, Ethics, and Social Responsibility
CC-CMW	Effective, Engaged, and Persuasive Communication: Written Component	CR	College Requirement
CC-GFL	Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language	MR	Major Requirement
CC-GHS	Carolina Core – Historical Thinking	PR	Program Requirement
CC-GSS	Carolina Core – Social Sciences		

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.