

**Concord University**  
**BACHELOR OF SCIENCE – Environmental Geosciences**  
*Registrar's Office Official Document*

Name: \_\_\_\_\_

120 hours minimum for graduation with a 2.00 average overall

56 hours from a four-year institution

2020-2021 Catalog

Course	Title	CR	GR	QP
Written and Oral Communications (9 credit hours) Select one course from BGEN 205 or COMM 101				
ENGL 101	Composition & Rhetoric I	3		
ENGL 102	Composition & Rhetoric II	3		
COMM 101 Or BGEN 205	Fundamentals of Speech Or Fundamentals of Business Communication	3		
Literature and Humanities (6 credit hours) Select one (1) course from Literature and one (1) course from History and Philosophy. *May be repeated for 3 credit hours.				
	<b>ENGL</b> 203 or 204	3		
	<b>HIST</b> 101, 102, 203, 204, <b>PHIL</b> 101, 210, 316, or 361	3		
Fine Arts– (3 credit hours) Select one (1) course from the following:				
	<b>ART</b> 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, <b>MUS</b> 101, *451, *453A, or <b>THEA</b> 102	3		
Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.				
	<b>Category 1 - Business and Professional Studies</b> BGEN 105, ECON 203, ECON 204, FIN 200, RTM 100 or SOWK 161	3		
	<b>Category 2 - Geography</b> GEOG 101 or 321	3		
	<b>Category 3 - Political Science</b> POSC 101, 104, or 202			
	<b>Category 4 - Psychology</b> PSY 101 or 200			
	<b>Category 5 - Sociology</b> SOC 101, 201, or 301			
Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.				
GEOL 101	<b>Category 1-Biological Science</b> BIOL 101, 102, 121, or 122	4	See Major	
CHEM 101	<b>Category 2-Earth &amp; Space Science</b> GEOL 101, GEOL 140 or 150, GEOG 200, PHSC 104, or PHYS 105	3-4	See Major	
	<b>Category 3-Physical Science</b> CHEM 100, CHEM 101/111, PHSC 103, PHYS 101, or PHYS 201			
Mathematics (3 credit hours) Select one (1) Mathematics course numbered 100 or higher.				
MATH 103	College Algebra	3	See Major	
Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.				
	<b>H ED</b> 120, 304, <b>P ED</b> 101M, 117 or 118	2-3		
Modern/Classical Language – (Optional 6 credit hours) Select two courses within the same Modern/Classical Language for substitution purposes.				
	May not substitute Modern Language for ENGL 101, ENGL 102, the 3 hour Mathematics requirement or the 4-hour lab science requirement.			

Environmental Geosciences (Minimum 2.00 GPA required)				
Introductory Courses** (6-8 Credit Hours)				
Select one Gateway Course (3-4 Credits)				
	<ul style="list-style-type: none"> <li>• GEOL 101 Earth Processes, Resources and the Environment (4) (<b>Recommended</b>)</li> <li>• GEOL 150 Oceanography (3)</li> <li>• GEOL 210 Natural Disasters (3)</li> <li>• GEOL 101 Humans and the Environment (3)</li> <li>• GEOG 200 Digital Earth (3)</li> <li>• PHSC 104 Concepts in Physical Science: Earth/Space Sciences (4)</li> </ul>	3-4		
Select one Earth history or environmental course (3-4 Credits)				
	<ul style="list-style-type: none"> <li>• GEOL 140 Geology of WV &amp; the Appalachian Region (3)</li> <li>• GEOL 202 Evolution of Earth Systems (4)</li> <li>• GEOL 205 Environmental &amp; Applied Geology (4)</li> </ul>	3-4		
Geology Core (26 Credit Hours)				
Select one of the following (4 Credits)				
	<ul style="list-style-type: none"> <li>• GEOL 310 Soil, Water, and Land Use (4)</li> <li>• GEOL 312 Climatology (4)</li> <li>• GEOL 315 Biogeography &amp; Environmental Change (4)</li> </ul>	4		
Complete all of the following (22 Credits)				
GEOL 365	Earth Materials and Minerals	4		
GEOL 375	Petrology	4		
GEOL 380	Sedimentary Geology	4		
GEOL 385	Earth Structure and Tectonics	4		
GEOL 404	Field Geology I	3		
GEOL 405**	Field Geology II	3		
Geospatial Science (6 Credit Hours)				
GEOG 311	GIS and Cartography	3		
GEOG 411	GIS Design and Application	3		
Science and Mathematics Cognate (17-23 Credit Hours)				
Complete all of the following				
MATH 103* Or MATH 103C*	College Algebra	3		
MATH 104*	College Trigonometry	3		
CHEM 101	General Chemistry I	3		

**Concord University**  
**BACHELOR OF SCIENCE – Environmental Geosciences**  
*Registrar's Office Official Document*

CHEM 111	General Chemistry Laboratory I	1		
CHEM 102	General Chemistry II	3		
CHEM 112	General Chemistry Laboratory II	1		
CHEM 219	Laboratory Research Methodology	1		
<b><u>Select eight credit hours from the following (courses in physics, calculus, and statistics recommended for professional geologists)</u></b>				
	<ul style="list-style-type: none"> <li>● PHYS 101 Introductory Physics (4)</li> <li>● PHYS 102 Intermediate Physics (4)</li> <li>● PHYS 201 University Physics w/ Calculus, Part 1 (4)</li> <li>● PHYS 202 University Physics w/ Calculus Part 2 (4)</li> <li>● BIOL 201 Ecology and Field Methods (4)</li> <li>● BIOL 315 Freshwater Ecology (4)</li> <li>● Any additional MATH courses</li> <li>● Any additional CHEM courses</li> <li>● Any CS (computer science) courses</li> </ul>	4		

NOTE:  
Six credit hours of additional upper-level coursework in BIOL, CHEM, or PHYS (numbered between 300-449), may be substituted for any one GEOL or GEOG course; twelve hours may be substituted for two GEOL or GEOG courses.

\*MATH 103 and/or 104 may be waived for those students establishing “equivalent proficiency” as outlined by the Department of Mathematics and Computer Science (Math ACT 25 or 28).

\*\*Students in need of accessibility accommodations or unable to conduct field work or travel may petition for an appropriate course substitution or virtual field experience.

**RESIDENCE CREDIT:**

36 hours at Concord  
16 of last 32 hours at Concord  
Note: In some degree programs, this is prior to entering professional training.  
9 hours in Major, Teaching Fields

**PROGRAM CREDITS:** 120 minimum credit hours  
**REQUIRED CREDITS:** 84 – 93 credit hours  
**ELECTIVE CREDITS:** 27 – 36 credit hours

Revised 10/06/2020