

# Concord University

## Bachelor of Science in Environmental Geosciences

Spring 2017 Catalog

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

120 hours minimum for graduation with a 2.00 average overall  
56 hours from a four-year institution

Course	Title	CR	GR	QP
<b>Written and Oral Communications (9 credit hours) Select one course from BGEN 205 or COMM 101</b>				
ENGL 101	Composition & Rhetoric I	3		
ENGL 102	Composition & Rhetoric II	3		
		3		
<b>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>				
	<b>ENGL</b> 203, 204, *203A, *204A or *207A	3		
	<b>HIST</b> 101, 102, 203, 204, <b>PHIL</b> 101, 102, 316, or 360	3		
<b>Fine Arts-- (3 credit hours) Select one (1) course from the following:</b>				
	<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		
<b>Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.</b>				
	<b>Category 1 - Business and Professional Studies</b> BGEN 105, ECON 201, ECON 202, FIN 200, RTM 100 or SOWK 161	3		
	<b>Category 2 - Geography</b> GEOG 101, 250 or 321	3		
	<b>Category 3 - Political Science</b> POSC 101, 104, or 202	3		
	<b>Category 4 - Psychology</b> PSY 101 or 200			
	<b>Category 5 - Sociology</b> SOC 101, 201, or 301			
<b>Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.</b>				
	<b>Category 1-Biological Science</b> BIOL 101, 102 or 103	4		
	<b>Category 2-Earth &amp; Space Science</b> GEOL 101, GEOL 150, GEOG 200, PHSC 104, or PHYS 105	3-4		
	<b>Category 3-Physical Science</b> CHEM 100, CHEM 101/111, PHSC 103, PHYS 101, or PHYS 201			
<b>Mathematics (3 credit hours) Select one (1) Mathematics course numbered 100 or higher.</b>				
		3		
<b>Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.</b>				
	<b>H ED</b> 120, 304, <b>P ED</b> 101M, 117, 118, or <b>RTM</b> 360	2		
<b>Modern/Classical Language – (Optional 6 credit hours) Select two courses within the same Modern/Classical Language for substitution purposes.</b>				
	May not substitute Modern Language for ENGL 101, ENGL 102, the 3 hour Mathematics requirement or the 4-hour lab science requirement.			

<b>Environmental Geosciences (2.00 GPA required)</b>				
GEOL 101	Earth Processes, Resources and the Environment	4		
GEOL 202	Evolution of Earth Systems	4		
GEOL 205	Environmental Applied Geology	4		
GEOL 370	Earth Materials and Minerals	4		
GEOL 375	Petrology	4		
GEOL 380	Sedimentary Geology	4		
GEOL 385	Structural Geology	4		
GEOL 404	Field Geology	6		
CHEM 101	General Chemistry I	3		
CHEM 111	General Chemistry Lab I	1		
CHEM 102	General Chemistry II	3		
CHEM 112	General Chemistry Lab II	1		
MATH 103*	College Algebra	3		
MATH 104*	College Trigonometry	3		
MATH---	7 hours (two or three courses) of mathematics or computer science selected from MATH 105 or higher and/or CS 201 or higher	3		
MATH---		4		

NOTE:

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

\*\*MATH 250-251 recommended for Geology graduate school applicants.

\*\*\*Math 250 must be selected for the mathematics core requirement to satisfy this elective concentration (Physical Sciences).

**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

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**Students must select one of three elective concentrations listed below.**

Geography and Geographic Information Systems (16 hours)				
GEOG 311	Cartography	3		
GEOG 411	Geographic Information Systems	3		
	10 hours from any of the following (including at least 6 hours in GEOG) GEOG 300, 312, 340, 360, 412, or any electives in GEOL beyond those used to satisfy Core Requirements.			

Ecology and Life Sciences (16 hours)				
BIOL 101	General Biology I	4		
BIOL 102	General Biology II	4		
BIOL 201	Ecology and Field Methods	4		
	4 hours electives from any other courses in Biology (BIOL 315, Freshwater Ecology, recommended)	4		

Physical Sciences (8-10 hours)***				
PHYS 201 and PHYS 202	University Physics w/Calculus I	4		
	and University Physics w/Calculus II	4		
	<b><u>OR</u></b>			
PHYS 101 and PHYS 102	Introduction to Physics	4		
	and Intermediate Physics	4		
	<b><u>AND</u></b>			
	Two (2) hours of electives from 200 or higher level course in CHEM, GEOL, PHYS beyond those used to satisfy Core Requirements.	2		