Concord University BACHELOR OF SCIENCE – Environmental Geosciences

Registrar's Office Official Document

Name:							
56 hours from a four-year institution							
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	Fundamentals of Speech Or Fundamentals of Business	3					
BGEN 205	Communication						
	Humanities (6 credit hours) Select one (1) cone (1) course from History and Philosophy credit hours.						
	ENGL 203 or 204	3					
	HIST 101, 102, 203, 204, PHIL 101, 308, 316, or 361	3					
Fine Arts– (3 a	credit hours) Select one (1) course from the	followi	ng:	ı			
	ART 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, MUS 101, *451, *453A, or THEA 102	3					
Social and Bel three different	navioral Sciences (9 credit hours) Select one categories.	(1) cou	rse fr	от			
	Category 1 - Business and Professional Studies	3					
	BGEN 105, ECON 203, ECON 204, FIN 200, HSP 100 or SOWK 161	3					
	Category 2 - Geography GEOG 101 or 221	3					
	Category 3 - Political Science POSC 101, 104, or 202						
	Category 4 - Psychology PSY 101 or 200						
	Category 5 – Sociology SOC 101, 201, or 301						
Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.							
CHEM 100/111	Category 1-Biological Science BIOL 101, 102, 121, or 122	4	See Maj	or			
GEOL 101 or GEOG	Category 2-Earth & Space Science GEOL 101, GEOL 140 or 150,	3-4	See Major				
200 or PHSC 104	GEOG 200, PHSC 104, or PHYS 105						
	Category 3-Physical Science						
	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		3	See Maj	or			
Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.							
	H ED 120, 304, P ED 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.						

2024-2025 Catalog							
	Environmental Geosciences (Minimum 2.00 GPA required)						
Earth and Environmental Sciences Core							
	Select one of the following:						
	• GEOL 101 Earth Processes,						
	Resources and the Environment (4) (Recommended)						
	,						
	 GEOL 140 Geology and Environmental Issues in 	3-4					
	Appalachia (3)						
	PHSC 104 Concepts in Physical						
	Science: Earth/Space Sciences (4)						
	Select three of the following:						
	GEOL 202 Evolution of Earth Systems						
	GEOL 205 Environmental and Applied Geology	4					
	GEOL 310 Soil, Water, and Land Use						
	• GEOL 312 Climatology	4					
	GEOL 315 Biogeography & Environmental Change						
	GEOL 375 Chemistry and Petrology of the Solid Earth	4					
	GEOL 380 Sedimentary Geology						
	Complete all of the following:						
GEOL 365	Earth Materials and Minerals	4					
GEOL 385	Earth Structure and Tectonics	4					
GEOL 404	Field Geology I	3					
GEOL 405**	Field Geology II	3					
GEOL 415	Electron Imaging and X-ray Microanalysis	2					
Geospatial Scie	<u>nce</u>						
GEOG 200	Digital Earth	3					
GEOG 311	GIS and Cartography						
or GEOG 411 or	or GIS Design and Application or	3					
GEOG 412	Public Health GIS						
Supporting Co	<u>urses</u>						
	porting Core. Complete all of the follo	owing:	1				
MATH 103/103C*	College Algebra						
103/103C* and MATH 104*	and College Trigonometry	4-6					
or MATH 107	or Precalculus						
CHEM 101*	Principles of Chemistry I	3					
CHEM 111*	Principles of Chemistry I Lab	1					
PHSC 219	Laboratory Research Methods and Ethics	1					
S	Select one of the following four (4) options:						
	•CHEM 102 Principles of Chemistry II (3) and CHEM 112 Principles of Chemistry II Lab (1)						
	 PHYS 101 Introductory Physics (4) PHYS 201 University Physics with Calculus, Part I (4) 	4					
	MATH 253 Calculus with Analytical Geometry I (4)						

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Supporting Electives.						
Select seven (7) or more hours from the following (courses in physics						
calculus, and statistics recommended for professional geologists)						
	• BIOL 121 Foundations of Biology I (4) (or higher)					
	• CHEM 102 Principles of Chemistry II (3) (or higher)					
	• CS 151 Introduction to Computer Science (3) (or higher)					
	• GEOG 101 Humans and the Environment (3) (or higher)					
	• GEOL 202 Earth Systems History (4) (or higher)	3				
	• HS 301 Public Health Epidemiology (3)					
	• LSPL 101 Introduction to Legal Systems (3)					
	or					
	BGEN 301 Principles of Business Law (3)					
	• MATH 105 Elementary Statistics (3) (or higher)	4				
	• PHYS 101 Introductory Physics (4) (or higher)					
	 PSY 229 Health Psychology (3) 					
	• SOC 201 Social Problems (3)					
	• SOC 326 Medical Sociology (3)					
	• SOWK 302 Human Diversity (3)					

Elective Concentrations by Career Interest:

These are optional so you are not required to select or complete one, and you may instead select a mix of courses in collaboration with your advisor.

Public Health, Society, and Environment

All of the Following:

 HS 301, GEOG 101, GEOG 412; and three (3) from SOC 201, SOC 326, SOWK 302, LSPL 101 or BGEN 301, PSY 229, GEOG 221, GEOL 310, GEOL 312.
 Recommended: MATH 105

Geology

All of the Following:

• GEOL 375, GEOL 380, CHEM 102/112.

Two of the Following:

 PHYS 101 or 201, PHYS 102 or 202, MATH 253, MATH 254, GEOL 205, GEOL 470 (recommended).

Environmental Science

Five of the Following:

•BIOL 122, BIOL 201, BIOL 315, CHEM 102/112, PHYS 101 or 201, GEOL 205, GEOL 310, GEOL 312, GEOL 315, GEOL 471, MATH 105.

Geospatial Science

Six of the Following:

• GEOG 311, GEOG 411, GEOG 412, CS 151, CS 252, CS 282, CS 283, MATH 105, GEOG 450.

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 and/or 107 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 for GEOL 405 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

TOTAL MINIMUM REQUIRED CREDITS: 120 GENERAL EDUCATION CREDITS: 39-41 PROGRAM REQUIREMENTS: 50-52 ELECTIVE CREDITS: 27-31