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

Title CR GR OP Course Written and Oral Communications (9 credit hours) Select one course from BGEN 205 or COMM 101 ENGL 101 Composition & Rhetoric I 3 ENGL 102 3 Composition & Rhetoric II Fundamentals of Speech COMM 101 3 Or Fundamentals of Business **BGEN 205** Communication 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. **ENGL** 203 or 204 HIST 101, 102, 203, 204, PHIL 101, 308, 316, or 361 Fine Arts- (3 credit hours) Select one (1) course from the following: ART 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, MUS 101, *451, *453A, **THEA** 102 Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories. Category 1 - Business and 3 **Professional Studies** BGEN 105, ECON 203, ECON 204, 3 FIN 200, HSP 100 or SOWK 161 Category 2 - Geography GEOG 101 or 321 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. Category 1-Biological Science See GEOL 101 BIOL 101, 102, 121, or 122 Major Category 2-Earth & Space Science CHEM See 3-4 GEOL 101, GEOL 140 or 150, 101/111 Major 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 103 College Algebra Major 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 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.

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	ourses** (6-8 Credit Hours)	incu)					
Select one of the following:(3-4 Credits)							
	• 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)						
Farth and Envi	` '	Iours)					
Earth and Environmental Sciences Core (28 Credit Hours)							
	• GEOL 202 Evolution of Earth	ts)					
	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	4					
	Petrology of the Solid Earth						
	• GEOL 380 Sedimentary Geology						
<u>(</u>	Complete all of the following (16 Cred	<u>its)</u>					
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 Science (6 Credit Hours)							
GEOG 200	Digital Earth	3					
GEOG 200	· ·	3					
or	GIS and Cartography						
GEOG 411	GIS Design and Application	3					
or GEOG 412	or Public Health GIS						
	urses (13-19 Credit Hours)						
Supporting Core. Complete all of the following:							
MATH 103/103C*	College Algebra						
and MATH 104*	and College Trigonometry	4-6					
or	or						
MATH 107	Precalculus						
CHEM 101*	General Chemistry I	3					
CHEM 111*	General Chemistry Laboratory I	1					
PHSC 219	Laboratory Research Methods and Ethics	1					
Select one of the following four (4) options (4 Credit Hours):							
	CHEM 102 General Chemistry (3) and CHEM 112 General Chemistry Laboratory (1)						
	• PHYS 101 Introductory Physics (4)	4					
	• PHYS 201 University Physics with Calculus, Part I (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 General 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				
	 PSY 229 Health Psychology (3) 					
	• PHYS 101 Introductory Physics (4) (or higher)					
	• 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 321, 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.

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 ELECTIVE CREDITS: 29-32