## ENVIRONMENTAL SCIENCE, BACHELOR OF SCIENCE WITH A CONCENTRATION IN EARTH SCIENCES

Requirements

Code	Title	Credits
Required core cour	ses:	
,	of cross-listed courses, Environmental	
-	nroll in the ENVN section)	
ENVN 2010	ENVIRONMENTAL PROBLEMS AND SOLUTIONS	2
BIOL 1330	ENVIRONMENTAL BIOLOGY	3
CHEM 1010	CHEMISTRY IN THE ENVIRONMENT AND SOCIETY	3
or CHEM 3030	ENVIRONMENTAL CHEMISTRY	
ENVN/GEOG/GEOL/ BIOL 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT	3
Minimum of 1 credit h	nour of ENVN 4800 must be completed (up plied to the major)	
ENVN/BIOL 4800	INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING	1-3
ENVN/BIOL/GEOG/ PA 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS	3
Also required:		
An approved course in STAT 3000, PSYC 3130	n statistics (BIOL 4110, STAT 1530, 0, SOC 2130)	3-4
An approved GIS cour GEOG 4050)	rse (GEOL 2300, ENVN 4600, GEOG 1090,	1-4
	ocusing on the human dimensions of s (ANTH 4250, ENVN 3180, ENVN 4270, r, PSCI 4270)	3
<b>Earth Sciences Con</b>	centration requirements:	
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
One course covering	surface processes:	
GEOL 4260	PROCESS GEOMORPHOLOGY	4
or GEOL 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	
or GEOL 4640	CRITICAL ZONE SCIENCE	
	L 27 hours of geography/geology/ e courses from the following:	27
ENVN 4410	WETLAND ECOLOGY AND MANAGEMENT	
GEOL 1180	INTRODUCTION TO HISTORICAL GEOLOGY	
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING	
GEOL 2500	SPECIAL TOPICS IN GEOGRAPHY- GEOLOGY	
GEOL 2600	GEOHYDROLOGY	
GEOL 2750	MINERALOGY	
GEOL 2754	MINERALOGY LABORATORY	
GEOL 2760	IGNEOUS AND METAMORPHIC PETROLOGY	

То	tal Credits		75-81
	PHYS 2110 & PHYS 1154	GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I	
	PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I	
	PHYS 1050 & PHYS 1054	INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY	
	lect one of the follow mbinations:	wing physics lecture and laboratory	5
	CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY	
	CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY	
	CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	
	Sequence Two:		
	GEOL 4540	CHEMISTRY LABORATORY GEOCHEMISTRY	
	CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC	
	CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY	
	Sequence One:		
Se	lect one of the follow	ving chemistry sequences:	13
Re	equired cognate c	ourses:	
	GEOG 4630	ENVIRONMENTAL REMOTE SENSING	
	GEOG 4350	CLASSIFICATION GLOBAL CLIMATE CHANGE	
	GEOG/GEOL 4330	CLIMATOLOGY SOIL GENESIS, MORPHOLOGY AND	
	4100		
	GEOG/BIOL/GEOL	RESOURCES BIOGEOGRAPHY	
	GEOG 3510 GEOG 4010	METEOROLOGY CONSERVATION OF NATURAL	
	,	CRITICAL ZONE SCIENCE	
	GEOL 4400	GEOPHYSICS	
	GEOL/GEOG 4260	PROCESS GEOMORPHOLOGY	
	GEOL 3400	INTRODUCTION TO SEDIMENTARY GEOLOGY	
	GEOL 3310	STRUCTURAL GEOLOGY FIELD METHODS	S
	GEOL 3300	STRUCTURAL GEOLOGY	
	GEOL 2764	IGNEOUS AND METAMORPHIC PETROLOGY LABORATORY	

## **Writing in the Discipline**

All students are required to take a writing in the discipline course within their major. For the Environmental Science major with a concentration in Earth Science, the writing in the discipline requirement can be fulfilled by completing GEOL 4950 or ENGL 3980.

Freshman		
Fall		Credits
BIOL 1330	ENVIRONMENTAL BIOLOGY	3
CHEM 1010	CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (*)	3
ENGL 1150	ENGLISH COMPOSITION I (**)	3
MATH 1220 or MATH 1300	COLLEGE ALGEBRA (***) or COLLEGE ALGEBRA WITH SUPPORT	3
	e Arts/US Diversity quires MATH 1220 (MATH 1300) or	3
placement via Al	quires EPPE score of 5 or appropriate P or ACT. see the catalog for the most up-to-date	
	Credits	15
Spring		
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
ENGL 1160	ENGLISH COMPOSITION II (*)	3
ENVN 2010	ENVIRONMENTAL PROBLEMS AND SOLUTIONS (**)	2
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
,	bal Diversity (GEOG 1020 suggested) uires ENGL 1150, EPPE score of 6, or AP	3
**ENVN 2010: re	equires BIOL 1330 or GEOG 1050 or oncurrent enrollment	
	Credits	15
Sophomore Fall		
CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (*,**)	5
Approved GEOG/GI	EOL/ENVN Elective	3
Approved GEOG/GI	EOL/ENVN Elective	4
Humanities and Fin *CHEM 1140: Plo	e Arts ease see the catalog for the most up-to-date	3
prerequisites.		
**CHEM 1180/1 for CHEM 1140/	184 and 1190/1194 together can substitute 1144.	
	Credits	15
Spring CHEM 2210	FLINDAMENTAL C OF ORGANIC	-
& CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC	5
	CHEMISTRY LABORATORY (*,**)	
Approved GEOG/GI	,	4
Approved GEOG/GI	EOL/ENVN Elective	3
	quires CHEM 1140/1144 or	3
taken concurren	-	
CHEM 2210/221		
	Credits	15
Junior 		
Fall	CEOCHEMICEDY	
GEOL 4540	GEOCHEMISTRY	3

Approved GIS Course	4	
Approved GEOG/GEOL/ENVN Elective		
Humanities and Fine Arts*		
*HFA – must be in	·	
Spring	Credits	14
ENGL 3980	TECHNICAL WRITING ACROSS THE DISCIPLINES (*)	3
PHYS 1050 & PHYS 1054	INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (**, ***,^)	5
Approved GEOG/GEO	L/ENVN Elective	4
score of 5	res ENGL 1160, or EPPE score of 7, or AP	3
***PHYS 1054: HS o	algebra or equivalent; PHYS 1050 prior or	
	sequence of PHYS 1110/1154 and taken in place of PHYS 1050/1054.	
#33 – must be m u	Credits	15
Summer	or cares	
ENVN 4800	INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING (*)	1
*ENVN 4800: requi	ires permission of instructor.	
	Credits	1
Senior Fall		
ENVN/GEOG/GEOL/ BIOL 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT (*)	3
ENVN 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (**)	3
Approved GEOG/GEO	·	3
Approved GEOG/GEOL/ENVN Elective*** Elective course***		
*ENVN/GEOG/GEO instructor.	DL/BIOL 4610 – requires permission of	
**ENVN 4820 - red	quires permission of instructor.	
***120 total credits are required for a degree, with a minimum of 18 upper level (3000-4000) credits in the major and 27 upper level credits throughout the degree. Selecting 3000-4000 level electives or course options can help you reach these minimums.		
	Credits	16
Spring Approved GEOG/GEO	I /ENIVN Floative	2
Statistics course	L/ LITTI LIGULIVE	3
An approved course focusing on the human dimensions of environmental studies		
Elective course*		3
Elective, if needed to r	reach 120*	3
of 18 upper level (3 27 upper level cred	are required for a degree, with a minimum 8000-4000) credits in the major and lits throughout the degree. Selecting ectives or course options can help you ums.	
	Credits	15
	Total Credits	121

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

## **Additional Information About this Plan:**

**University Degree Requirements**: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php

 $\star\star$ Transfer credit or placement exam scores may change suggested plan of study