ENVIRONMENTAL SCIENCE, BACHELOR OF SCIENCE WITH A CONCENTRATION IN LIFE SCIENCE

Environmental Science, Bachelor of Science with a Concentration in Life Sciences Requirements

Code	Title Cred	lits
GENERAL EDUCATION Required	ON REQUIREMENTS - 34 Hours	
Minimum of "C-" requ	ired	
Fundamental Skills		15
Writing – 6 hrs.		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	
Oral Communica	tion – 3 hrs.	
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
Quantitative Lite	racy – 3 hrs.	
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
Data Literacy – 3	hrs.	
Select one from the following:		
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
approved data lite	dents can satisfy this requirement with an racy course, or any approved natural or eral education course.	
Breadth of Knowled	dge	13
Social Science – 3	hrs.	
Humanities – 3 hrs		
Natural & Physical	Science (must complete a lab) – 4 hrs.	
Arts – 3 hrs.		
ndividual and Soci	al Responsibility	6
Cultural Knowledg	e – 3 hrs.	
Civic Knowledge aı	nd Engagement – 3 hrs.	
MAJOR REQUIREM	ENTS	
**Course will satisfy U	INO's General Education requirement	
Course requires pre-	requisite(s)	
Environmental Scie Life Sciences - 74-8:	nce Major with a Concentration in 7 Hours Required	
Required coursewo		-18
`	of cross-listed courses, Environmental enroll in the ENVN section)	

	ENVN 2010	ENVIRONMENTAL PROBLEMS AND SOLUTIONS (^)	
	GEOL 1010	ENVIRONMENTAL GEOLOGY (**)	
	GEOG 1050	HUMAN-ENVIRONMENT GEOGRAPHY (**)	
	ENVN/GEOL/BIOL 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT (^)	
	ENVN/BIOL 4800	INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING (^)	
	ENVN/GEOG 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)	
S	elect one of the fol	llowing Statistics courses	3-4
	BIOL 4110	STATISTICS FOR BIOLOGICAL SCIENCES (^)	
	ENVN 2020	STATISTICS FOR LIFE AND ENVIRONMENTAL SCIENCE (^)	
	STAT 1530	ELEMENTARY STATISTICS (** ^)	
	STAT 3000	STATISTICAL METHODS I (^)	
	PSYC 3130	STATISTICS FOR THE BEHAVIORAL SCIENCES (^)	
	SOC 2130	SOCIAL STATISTICS (^)	
S		llowing GIS courses	1-4
	ENVN 4600	GIS APPLICATIONS FOR ENVIRONMENTAL SCIENCE (^)	
	GEOG 1090	INTRODUCTION TO GEOSPATIAL SCIENCES (** ^)	
	GEOG 3530	CARTOGRAPHY AND DATA VISUALIZATION (^)	
	GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I (^)	
	elect one of the fol Dimensions of Envir	llowing courses on the Human conmental Studies	3
	ANTH 4250	ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS (^)	
	ECON 3320	ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^)	
	ENVN/PHIL 3180	ENVIRONMENTAL ETHICS (^)	
	ENVN/SPAN 3310	SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH- SPEAKING WORLD (^)	
	ENVN/PSCI 4270	GLOBAL ENVIRONMENTAL POLITICS (^)	
	ENVN 4390	THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT (^)	
	SOC 4760	ENVIRONMENTAL SOCIOLOGY (^)	
L	ife Sciences Conce	ntration	
A	II of the following:		25
	BIOL 1450	BIOLOGY I (** ^)	
		()	
	BIOL 1750	BIOLOGY II (^)	
	BIOL 1750 BIOL 2140		
	BIOL 2140 BIOL 3340	BIOLOGY II (^) GENETICS (^) ECOLOGY (^)	
	BIOL 2140 BIOL 3340 BIOL 3530	BIOLOGY II (^) GENETICS (^) ECOLOGY (^) FLORA OF THE GREAT PLAINS (^)	
	BIOL 2140 BIOL 3340 BIOL 3530 BIOL 4120	BIOLOGY II (^) GENETICS (^) ECOLOGY (^) FLORA OF THE GREAT PLAINS (^) CONSERVATION BIOLOGY (^)	
	BIOL 2140 BIOL 3340 BIOL 3530 BIOL 4120 Gelect three additio	BIOLOGY II (^) GENETICS (^) ECOLOGY (^) FLORA OF THE GREAT PLAINS (^) CONSERVATION BIOLOGY (^) nal upper division courses in Biology	10-12
O	BIOL 2140 BIOL 3340 BIOL 3530 BIOL 4120 Gelect three additions of the second sec	BIOLOGY II (^) GENETICS (^) ECOLOGY (^) FLORA OF THE GREAT PLAINS (^) CONSERVATION BIOLOGY (^)	10-12
O	BIOL 2140 BIOL 3340 BIOL 3530 BIOL 4120 Gelect three additions of the second sec	BIOLOGY II (^) GENETICS (^) ECOLOGY (^) FLORA OF THE GREAT PLAINS (^) CONSERVATION BIOLOGY (^) nal upper division courses in Biology cience from the approved list below). s must include a lab	10-12
O	BIOL 2140 BIOL 3340 BIOL 3530 BIOL 4120 Gelect three addition or Environmental So	BIOLOGY II (^) GENETICS (^) ECOLOGY (^) FLORA OF THE GREAT PLAINS (^) CONSERVATION BIOLOGY (^) nal upper division courses in Biology cience from the approved list below).	10-12

FAUNA OF THE GREAT PLAINS (^)

BIOL 3730

SPECIAL TOPICS IN BIOLOGY (^)
DIRECTED READINGS IN BIOLOGY (^) 1

BIOL 4030

BIOL 4040

	BIOL 4040	DIRECTED READINGS IN BIOLOGY (*)	
	BIOL 4050	SUPERVISED RESEARCH IN BIOLOGY (^)	
	BIOL/GEOG/GEOL 4100	BIOGEOGRAPHY (^)	
	BIOL 4110	STATISTICS FOR BIOLOGICAL SCIENCES (^) 2	
	BIOL/ENVN 4180	FRESHWATER ECOLOGY (^)	
	BIOL 4210	FIRE ECOLOGY (^)	
	BIOL 4220	POPULATION BIOLOGY (^)	
	BIOL 4230	EVOLUTION (^)	
	BIOL 4240	MARINE BIOLOGY (^)	
	BIOL 4260	BEHAVIORAL ECOLOGY (^)	
	BIOL/ENVN 4410	WETLAND ECOLOGY AND MANAGEMENT (^)	
	BIOL 4420	RESTORATION ECOLOGY (^)	
	BIOL 4490	MEDICINAL USES OF PLANTS (^)	
	BIOL 4540	PRINCIPLES OF SYSTEMATICS (^)	
	BIOL 4710	TOXICOLOGY (^)	
	BIOL 4780	VERTEBRATE ZOOLOGY (^)	
	BIOL 4790	MAMMALOGY (^)	
	BIOL 4840	HERPETOLOGY (^)	
	BIOL 4940	ENTOMOLOGY (^)	
	BIOL/ENVN 4970	ADVANCED BOTANY (^)	
	BIOL 4980	ORNITHOLOGY (^)	
	ENVN/BIOL 3030	MICROBIAL ECOLOGY	
	ENVN 4320	ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH (^)	
11	With approval from	the Environmental Studies Program	
со	•	ofy the statistics requirement or can uired biology and environmental Science	
	equired chemistry	courses:	3
	CHEM 1010	CHEMISTRY IN THE ENVIRONMENT AND	
	or CHEM 3030	SOCIETY (** ^) ENVIRONMENTAL CHEMISTRY	
In		ne of the following chemistry	10-13
se	quences	ne of the following offernion y	10 10
Se	quence One: CHEM 1140	FUNDAMENTALS OF COLLEGE	
	& CHEM 1144	CHEMISTRY	
		and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)	
	CHEM 2210	FUNDAMENTALS OF ORGANIC	
	& CHEM 2214	CHEMISTRY and FUNDAMENTALS OF ORGANIC	
		CHEMISTRY LABORATORY (^)	
Se	quence Two:		
	CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)	
	CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II	
		LABORATORY (^)	
	CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY	
		and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)	

	ional approved physical science y, Geology, Physical Geography, or	3-5
CHEM 3650 & CHEM 3654	FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)	
PHYS 1050 & PHYS 1054	INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (** ^)	
PHYS 1110	PHYSICS FOR LIFE SCIENCE I (** ^)	
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY $(^{\star\star})$	
GEOL 2300	GEOSCIENCE DATA ANALYSIS AND MODELING (^)	
GEOL/GEOG 4200	WATER QUALITY (^)	
GEOL/GEOG 4260	PROCESS GEOMORPHOLOGY (^)	
GEOL/GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)	
GEOL/CHEM 4540	GEOCHEMISTRY (^)	
GEOL/GEOG 4640	CRITICAL ZONE SCIENCE (^)	
GEOG 4010	CONSERVATION OF NATURAL RESOURCES (^)	
GEOG 4320	CLIMATOLOGY (^)	
GEOG 4340	WATER RESOURCES (^)	
GEOG/ENVN 4350	GLOBAL CLIMATE CHANGE (^)	
GEOG 4630	ENVIRONMENTAL REMOTE SENSING (^)	
College Breadth		0
College of Arts and Sc this major	iences' breadth requirement satisfied by	
Bachelor of Science	Cognate Requirement	0
See major.		
ELECTIVES		
Elective hours as requi	ired to reach a total of 120 hours	

Elective hours as required to reach a total of 120 hours

Environmental Science, Bachelor of Science with a Concentration in Life Sciences Four Year Plan

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Fall		Credits
BIOL 1450	BIOLOGY I	5
ENGL 1150	ENGLISH COMPOSITION I	3
GEOG 1050	HUMAN-ENVIRONMENT GEOGRAPHY	4
MATH 1300 or MATH 1320	COLLEGE ALGEBRA WITH SUPPORT or COLLEGE ALGEBRA	3-4

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

	Credits	15-16
Spring		
BIOL 1750	BIOLOGY II	5
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3
ENVN 2010	ENVIRONMENTAL PROBLEMS AND SOLUTIONS	2

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CHEM 1010 CHEMISTRY IN THE ENVIRONMENT AND SOCIETY

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

	O Pt .	
	Credits	16
Sophomore		
Fall		
CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY	5
GEOG 1090	INTRODUCTION TO GEOSPATIAL SCIENCES	4
General Education	Course or Elective	3
General Education	Course or Elective	3
employers. Look gain experience	er & Internship Fair to start networking with of for volunteer, research, or part-time work to one Join a student organization or club related onterests. Make advising appointment for loct.	
	Credits	15
Spring		

	Cicuits	13
Spring		
BIOL 2140	GENETICS	4
CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY	5
GEOL 1010	ENVIRONMENTAL GEOLOGY	3
General Education Co	urse or Elective	3
Attend a career fair	for informational and networking	

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

Credits 15

Junior

Fall

Approved BIOL/ENVN 3000/4000 Level elective with lab	4
Approved Statistics Course	3
General Education Course or Elective	3
General Education Course or Elective	3

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

	Credits	13
Spring		
BIOL 3340	ECOLOGY	4
BIOL 4120	CONSERVATION BIOLOGY	3
General Education Course or Elective		3
Elective		3
Elective		3

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

	Credits	16
Summer		
ENVN 4800	INTERNSHIP IN ENVIRONMENTAL	1
	MANAGEMENT AND PLANNING	
	Credits	1
Senior		
Fall		
BIOL 3530	FLORA OF THE GREAT PLAINS	4
ENVN 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT	3
ENVN 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS	3
Approved BIOL/EN	VN 3000/4000 Level elective	3
Approved physical:	3	
graduate school a career fair and for interviews an	reer Center for networking tips. Finalize applications or job search strategy. Attend I start applying for full-time jobs. Prepare ad salary negotiations with Career Services. ppointment for spring: Sept Oct.	
	Credits	16
Spring		
Approved BIOL/EN	VN 3000/4000 Level elective	4
An approved course environmental stud	e focusing on the human dimensions of ies	3
Elective		3
Elective		3
Polish your resur connected by joi	nal advising check before graduation. ne, cover letters, and LinkedIn profile. Stay ning alumni networks and professional pply for graduation via MavLink.	
	Credits	13
	Total Credits	120-121

Upper Level Credits: Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

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, World 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

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

GPA Requirements: 2.0

Note: This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor

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to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!