ENVIRONMENTAL SCIENCE, BACHELOR OF SCIENCE WITH A CONCENTRATION IN GEOGRAPHY AND PLANNING

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENVN 2010</td>
<td>ENVIRONMENTAL PROBLEMS AND SOLUTIONS</td>
<td>1</td>
</tr>
<tr>
<td>EN/GEOL/GEOG/ BIOL 4610</td>
<td>ENVIRONMENTAL MONITORING AND ASSESSMENT</td>
<td>3</td>
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<tr>
<td>GEOL 1010</td>
<td>ENVIRONMENTAL GEOLOGY</td>
<td>3</td>
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<tr>
<td>EN/BIOL 4800</td>
<td>INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING</td>
<td>3</td>
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<tr>
<td>EN/GEOL/GEOG/ PA 4820</td>
<td>INTRODUCTION TO ENVIRONMENTAL LAW &amp; REGULATIONS</td>
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Also required:
- An approved course in statistics
- Introductory GIS lecture and lab sequence:
  - GEOG 3530 CARTOGRAPHY AND DATA VISUALIZATION

Geography and Planning Concentration requirements:
- Select one physical geography course from the following:
  - GEOG 1030 OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY
  - GEOG 1050 HUMAN-ENVIRONMENT GEOGRAPHY

Select three courses from the following in Human Geography and Planning:
- GEOG 1020 INTRODUCTION TO HUMAN GEOGRAPHY
- GEOG 4120 URBAN GEOGRAPHY
- GEOG 4160 URBAN SUSTAINABILITY
- Or alternative courses approved by advisor.

Select three courses in Physical Geography:
- GEOG 3440 NEBRASKA NATURAL RESOURCES MANAGEMENT
- GEOG 3510 & GEOG 3514 METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (*)
- GEOG/BIOG/GEOL 4100 BIOGEOGRAPHY
- GEOG 4260 PROCESS GEOMORPHOLOGY
- GEOG 4320 CLIMATOLOGY
- GEOG/GEOL 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION
- GEOG 4340 WATER RESOURCES

- GEOG 4350 GLOBAL CLIMATE CHANGE
- GEOG/GEOL 4640 CRITICAL ZONE SCIENCE

- Both GEOG 3510 and GEOG 3514 must be completed to count towards this requirement.

Select two additional courses in Geospatial Sciences: 6-8
- GEOG 4020 SPATIAL ANALYSIS IN GEOGRAPHY
- GEOG 4030 COMPUTER MAPPING AND VISUALIZATION
- GEOG 4050 GEOGRAPHIC INFORMATION SYSTEMS I
- GEOG 4630 ENVIRONMENTAL REMOTE SENSING
- GEOG 4660 GEOGRAPHIC INFORMATION SYSTEMS II

Required cognate courses:
- One approved course in computer science
  - BIOL 1330 ENVIRONMENTAL BIOLOGY
- CHEM 1010 & CHEM 1014 CHEMISTRY IN THE ENVIRONMENT AND SOCIETY
  - CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY

Select two additional courses in Biology from the following: 6-9
- BIOL 1020 PRINCIPLES OF BIOLOGY
- BIOL 3340 ECOLOGY
- BIOL 3530 FLORA OF THE GREAT PLAINS
- BIOL 4120 CONSERVATION BIOLOGY
- BIOL 4180 FRESHWATER ECOLOGY
- BIOL 4210 FIRE ECOLOGY
- BIOL/ENVN 4410 WETLAND ECOLOGY AND MANAGEMENT

- Physics lecture and lab:
  - PHYS 1050 & PHYS 1054 INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY

Total Credits: 69-79

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 Geography and Planning, the writing in the discipline requirement can be fulfilled by completing ENGL 3980.

Freshman

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<th>Fall</th>
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<tr>
<td>BIOL 1330</td>
<td>3</td>
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<tr>
<td>ENGL 1150</td>
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<tr>
<td>GEOG 1020 (**)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1220 (***)</td>
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<tr>
<td>Humanities and Fine Arts/US Diversity</td>
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- **ENGL 1150: requires appropriate placement.
- **GEOG 1020 counts toward the major and as a social science/global diversity
- **MATH 1220: Requires appropriate placement.

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<th>Spring</th>
<th>Credits</th>
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<tr>
<td>CHEM 1010 &amp; CHEM 1014</td>
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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 (***))  1

GEOG 1030  or GEOG 1050  
OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY  or HUMAN-ENVIRONMENT GEOGRAPHY  4

*CHEM 1010: Requires MATH 1220 or higher or proficiency in MATH 1220 via ACT, SAT or Math Placement Exam

**ENGL 1160: requires ENGL 1150 or appropriate placement.

***ENVN 2010: requires BIOL 1330 or GEOL 1010 or concurrent enrollment

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Sophomore

Fall

GEOL 1010  
ENVIRONMENTAL GEOLOGY  3

Approved Computer Science course  3

Statistics course*  3

Humanities and Fine Arts/ US Diversity  3

Social Science  3

*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 (such as statistics) can help you reach these minimums.

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Spring

BIOL 1020  
PRINCIPLES OF BIOLOGY  4

GEOG 3530  
CARTOGRAPHY AND DATA VISUALIZATION (*)  4

Approved Physical Geography course  3

Approved Physical Geography course  3

*GEOG 3530 – requires GEOG 1000 or 1020; and GEOG 1030 or GEOG 1050

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Junior

Fall

Approved Geospatial Science course  4

Approved Physical Geography course  4

Approved Human Geography & Planning course  4

Humanities and Fine Arts*  3

*HFA – must be in a 2nd discipline

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Spring

ENGL 3980  
TECHNICAL WRITING ACROSS THE DISCIPLINES (*)  3

PHYS 1050  
INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (**, ***)  5

Approved Geospatial Science course  4

Social Science*  3

*ENGL 3980: requires ENGL 1160 or appropriate placement.

**PHYS 1050: HS algebra or equivalent

***PHYS 1054: HS algebra or equivalent; PHYS 1050 prior or concurrent

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Senior

Fall

ENV/GEOG/GEOL/BIOL 4610  
ENVIRONMENTAL MONITORING AND ASSESSMENT (*)  3

ENV 4820  
INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (**))  3

Approved Human Geography & Planning course  3

Elective course***  3

**ENV/GEOG/GEOL/BIOL 4610 – requires permission of instructor.

**ENV 4820 – requires 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 can help you reach these minimums.

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Spring

Approved Biology course  3

Approved Human Geography & Planning course  3

Elective course*  4

Elective course*  3

*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 can help you reach these minimums.

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Total Credits  120

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

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