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

| Requirements |  |  |
| :---: | :---: | :---: |
| Code | Title | Credits |
| Required core courses: |  |  |
| (Note that in the case of cross-listed courses, Environmental Science majors must enroll in the ENVN section.) |  |  |
| ENVN 2010 | ENVIRONMENTAL PROBLEMS AND SOLUTIONS | 2 |
| ENVN/GEOG/GEOL/ BIOL 4610 | ENVIRONMENTAL MONITORING AND ASSESSMENT | 3 |
| GEOL 1010 | ENVIRONMENTAL GEOLOGY | 3 |
| Minimum of 1 credit hour of ENVN 4800 must be completed (up to 3 credits can be applied 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 STAT 3000, PSYC 3130 | statistics (BIOL 4110, STAT 1530, , SOC 2130) | 3-4 |
| An approved course f environmental studie SOC 4760, PHIL 3180 | cusing on the human dimensions of (ANTH 4250, ENVN 3180, ENVN 4270, PSCI 4270) | 3 |
| Introductory GIS lecture and lab: |  |  |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION | 4 |
| Geography and Planning Concentration requirements: |  |  |
| Select one physical ge | ography course from the following: | 4 |
| 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 |  |
| ENVN 4330 | INTRODUCTION TO GREEN INFRASTRUCTURE |  |
| Or alternative courses approved by advisor. |  |  |
| Select three courses in | Physical Geography: | 9-12 |
| GEOG 3440 | NEBRASKA NATURAL RESOURCES MANAGMENT |  |
| GEOG 3510 <br> \& GEOG 3514 | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (*) |  |



## Required cognate courses:

| BIOL 1330 | ENVIRONMENTAL BIOLOGY | 3 |
| :--- | :--- | ---: |
| CHEM 1010 | CHEMISTRY IN THE ENVIRONMENT AND | 4 |
| \& CHEM 1014 | SOCIETY <br> and CHEMISTRY IN THE ENVIRONMENT |  |
|  | AND SOCIETY LABORATORY |  |
| Select one computerscience course from the following: |  |  |

$\left.\begin{array}{lll}\hline \text { CIST } 1300 & \text { INTRODUCTION TO WEB DEVELOPMENT } \\ \text { ISQA } 3310 & \text { MANAGING THE DATABASE } \\ & \text { ENVIRONMENT }\end{array}\right]$ 6-9
Physics lecture and lab: ..... 5
\& PHYS 1054 and INTRODUCTION TO PHYSICS LABORATORY71-82

## 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

Fall Credits

BIOL 1330 ENVIRONMENTAL BIOLOGY 3
ENGL 1150 ENGLISH COMPOSITION I (*) 3
GEOG 1020 INTRODUCTION TO HUMAN 3 GEOGRAPHY (**)
MATH 1220 COLLEGE ALGEBRA (***)
or COLLEGE ALGEBRA WITH SUPPORT or MATH 1300 or COLLEGE ALGEBRA WITH SUPPORT
Humanities and Fine Arts/US Diversity
*ENGL 1150: requires appropriate placement.
${ }^{* *}$ GEOG 1020 counts within the Human Geography category of the major and as a prerequiste for GEOG 3530. It may also be used for a social science/global diversity.
${ }^{* * \star}$ MATH: Math 1220/1300 or higher. Please see the catalog for the most up-to-date Math prerequisites.

|  | Credits | 15 |
| :---: | :---: | :---: |
| Spring |  |  |
| CHEM 1010 <br> \& CHEM 1014 | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY <br> and CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (*) | 4 |
| 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 |
| $\begin{aligned} & \text { GEOG } 1030 \\ & \text { or GEOG } 1050 \end{aligned}$ | OUR DYNAMIC PLANET: <br> INTRODUCTION TO PHYSICAL GEOGRAPHY <br> or HUMAN-ENVIRONMENT GEOGRAPHY | 4 |

*CHEM 1010: Requires MATH 1220 (or MATH 1300) or higher or proficiency via ACT, SAT, AP, or Math Placement Exam
**ENGL 1160: requires ENGL 1150 or appropriate placement.
***ENVN 2010: requires BIOL 1330 or GEOL 1010 or GEOG 1050 or concurrent enrollment.
Credits ..... 16

| Sophomore |  |  |
| :---: | :---: | :---: |
| Fall |  |  |
| GEOL 1010 | ENVIRONMENTAL GEOLOGY | 3 |
| $\begin{aligned} & \text { CIST } 1300 \\ & \text { or ISQA } 3310 \end{aligned}$ | INTRODUCTION TO WEB DEVELOPMENT (*) <br> or MANAGING THE DATABASE ENVIRONMENT | 3 |
| $\begin{aligned} & \text { STAT } 3000 \\ & \text { or PSYC } 3130 \\ & \text { or SOC } 2130 \\ & \text { or STAT } 1530 \end{aligned}$ | STATISTICAL METHODS I (**) <br> or STATISTICS FOR THE BEHAVIORAL <br> SCIENCES <br> or SOCIAL STATISTICS <br> or ELEMENTARY STATISTICS | 3 |
| Humanities and Fine Arts/ US Diversity |  |  |
| Social Science |  |  |
| *CIST 1300: MATH $1220 / 1300$ or 1120 or 1130 or higher. A programming course is one of the prerequisites for GEOG 3530 . ISQA 3310 requires CIST 2100 as a prereq, which can be used as a social science. |  |  |
| **Statistics: several options are available for students, most requiring MATH 1220/1300 or higher or proper placement as a prereq. Speak with your advisor for more options. |  |  |
| *120 total credits are required for a degree, with a minimu 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. |  |  |

Spring PRINCIPLES OF BIOLOGY

| BIOL 1020 | PRINCIPLES OF BIOLOGY | 4 |
| :--- | :--- | :--- |
| GEOG 3530 | CARTOGRAPHY AND DATA | 4 |

Approved Physical Geography course

Approved Physical Geography course
*GEOG 3530 - requires GEOG 1000 or 1020; GEOG 1030 or GEOG 1050; a programming course such as CIST 1300; and a statistics course, such as STAT 3000 or PSYC 3130 or SOC 2130 or STAT 1530.

## Credits

## 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 2 nd discipline

| Spring | Credits | 15 |
| :--- | :--- | ---: |
| ENGL 3980 | TECHNICAL WRITING ACROSS THE | 3 |
| PHYS 1050 | DISCIPLINES $\left(^{*}\right)$ |  |

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
${ }^{\wedge}$ SS - must be in a 2nd discipline
Credits 15

## Summer

ENVN 4800 INTERNSHIP IN ENVIRONMENTAL 1-3 MANAGEMENT AND PLANNING (*)
*ENVN 4800: requires permission of instructor.

## Credits

1-3
## Senior

Fall
ENVN/GEOG/GEOL/ ENVIRONMENTAL MONITORING AND 3
BIOL 4610 ASSESSMENT (*)
ENVN 4820 INTRODUCTION TO ENVIRONMENTAL 3

Approved Human Geography \& Planning course 3
An approved course focusing on the human dimensions of 3 environmental studies
Elective course ${ }^{\star \star \star} \quad 3$
*ENVN/GEOG/GEOL/BIOL 4610 - requires permission of instructor.
**ENVN 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.

## Credits

## Spring

Approved Biology course 3
Elective course ${ }^{\star} 3$
Elective course ${ }^{\star} 3$
Elective course ${ }^{\star} 3$
Elective course, if needed to reach $120^{\star} 3$
*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.

| Credits | 15 |
| :--- | ---: |
| Total Credits | $121-123$ |

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 course sequence based on availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract, and the 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. To graduate on time (four years for an undergraduate degree), you must take 30 hours each year.

Placement Exams: For Math, English, and Foreign Languages, 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 the suggested plan of study

