ENVIRONMENTAL STUDIES (ASC)

Description
Website: esp.unl.edu (http://esp.unl.edu)
The environmental studies major is designed for students who want to make a difference and contribute to solving environmental challenges on a local to global scale. Solutions to challenges such as climate change, pollution, and resource conservation require individuals who have a broad-based knowledge in the natural and social sciences, as well as strength in a specific discipline. The environmental studies major will provide the knowledge and skills needed for students to work across disciplines and to be competitive in the job market. The Environmental Studies program uses a holistic approach and a framework of sustainability. This framework recognizes the necessity of meeting current resource needs without compromising the environment or the ability of future generations to meet their needs.

College Requirements

College Admission
College Admission
The entrance requirements for the College of Arts and Sciences are the same as the UNL General Admission Requirements. Students who are admitted through the Admission by Review process may have certain conditions attached to their enrollment at UNL. These conditions are explained under “Removal of Deficiencies.”

In addition to these requirements, the College of Arts and Sciences strongly recommends a third and fourth year of one foreign language. Four years of high school coursework in the same language will fulfill the College of Arts and Sciences’ language requirement. It will also allow students to continue language study at a more advanced level at UNL, and provide more opportunity to study abroad.

Transfer Students
To be considered for admission as a transfer student, Nebraska resident or nonresident, students must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who graduated from high school January 1997 and after must also meet the UNL General Admission Requirements. Those transfer students who graduated before January 1997 must have completed in high school, 3 years of English, 2 years of the same foreign language, 2 years of algebra, and 1 year of geometry. Transfer students who have completed less than 12 credit hours of college study must also submit either their ACT or SAT scores.

Ordinarily, hours earned at a similarly accredited college or university are applicable to the UNL degree. The College, however, will evaluate all hours submitted on an application for transfer, and reserves the right to accept or reject any of them, based upon its exclusion and restriction policies. Sixty is the maximum number of hours the University will accept on transfer from a two-year college or international institution. Transfer credit in the major or minor must be approved by the departmental advisor on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major or minor. At least half of the hours in the major field must be completed at the University regardless of the number of hours transferred.

The College of Arts and Sciences will accept no more than 15 semester hours of C- and D grades from other schools. The C- and D grades cannot be applied toward requirements for a major or minor. This policy does not apply to the transfer of grades from UNO or UNK to UNL. All D grades may be transferred from UNO or UNK, but they are not applicable to a major or minor.

Readmitted Students
UNL students who choose not to take courses for more than 2 consecutive terms, must reapply to UNL. Students readmitted to the College of Arts and Sciences will follow the requirements stated in the catalog for the academic year of readmission and re-enrollment as a degree-seeking student in Arts and Sciences. In consultation with advisors, a student may choose to follow a catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Arts and Sciences. Students must complete all degree requirements from a single catalog year. Beginning in 1990-1991, the catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Admission Deficiencies/Removal of Deficiencies
Students must remove entrance deficiencies in geometry and foreign language as soon as possible, and before graduating from the College of Arts and Sciences. For questions and more information, students should consult a college advisor in the Academic and Career Advising Center in 107 Oldfather Hall.

Removing Foreign Language Deficiencies
Students must complete the second semester of a first year language sequence to clear the deficiency and the second semester of the second year language sequence to complete the college graduation requirement in language.

Removing Geometry Deficiencies
A deficiency of one year of geometry can be removed by taking high school geometry courses through an approved independent study program, or by completing a geometry course from an accredited community college or a four-year institution. Neither of these options will count for college credit.

College Degree Requirements

College Distribution Requirements
Bachelor of Arts or Bachelor of Science (16 hours + Language)
The College of Arts and Sciences distribution requirements are designed to further the purposes of liberal education by encouraging study in several different areas within the College. All requirements are in addition to University ACE requirements. A student may not use a single course to satisfy more than one of the following five distribution requirements. A student cannot use a single course to satisfy both an ACE outcome and a College distribution requirement. A student cannot use a course from their primary major to satisfy the Breadth Requirement (F), but may apply an ancillary requirement of the primary major or a course from their second major toward this requirement. Independent study or reading courses and internships cannot be used to satisfy distribution requirements. To see a complete list of excluded courses, run a degree audit through MyRED.

Courses from interdisciplinary programs will count in the same area as courses from the home/cross-listed department(s).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
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</table>

College Distribution Requirements
CDR A - Written Communication
Select from courses approved for ACE outcome 1. 3

CDR B and BL - Natural, Physical, and Mathematical Sciences with Lab
Select from biochemistry, biological sciences, chemistry, computer science, geology, meteorology, mathematics, physics and statistics. Must include one lab in the natural or physical sciences. Lab courses may be selected from biochemistry, biological sciences, chemistry, geology, meteorology and physics. 4

Some courses from geography and anthropology may also be used to satisfy the lab requirement above. 1

CDR C - Humanities
Select from classics, English, history, modern languages and literatures, philosophy, and religious studies. 2

CDR D - Social Science
Select from: anthropology, communication studies, geography, political science, psychology, or sociology. 3

CDR E - Language
Fulfilled by the completion of the 6-credit-hour second-year sequence in a single foreign language in one of the following departments: Classics and religious studies, modern languages and literatures, or anthropology. Instruction is currently available in Arabic, Chinese, Czech, French, German, Greek, Japanese, Latin, Omaha, Russian, and Spanish. A student who has completed the fourth-year level of one foreign language in high school is exempt from the languages requirement. 0-16

CDR F - Additional Breadth
Select from: natural, physical and mathematical sciences (Area B), humanities (Area C), or social sciences (Area D). Cannot be a course from the primary major. 3

Credit Hours Subtotal: 16-32

1 See degree audit or a College of Arts and Sciences advisor for approved geography and anthropology courses that apply as natural science.
2 Language courses numbered 210 or below apply only for the foreign language requirement.
3 See degree audit or College of Arts and Sciences advisor for list of natural/physical science courses in anthropology, geography, and psychology that do not apply as social science.

Scientific Base
Bachelor of Science Only (60 hours)
The bachelor of science degree requires students to complete 60 hours in mathematical, physical and natural sciences. Approved courses for scientific base credit come from the following College of Arts and Sciences disciplines: actuarial science, anthropology (selected courses), astronomy, biochemistry (excluding BIOC 101), biological sciences (excluding BIOS 203), chemistry (excluding CHEM 101), computer science (excluding CSCE 10), geography (selected courses), geology, life sciences, mathematics (excluding courses below MATH 104), meteorology, microbiology, physics and statistics.

See your degree audit or a College of Arts and Sciences advisor for a complete list including individual classes that fall outside of the disciplines listed above. Up to 12 hours of scientific and technical courses offered by other colleges may be accepted toward this requirement with approval of a college advisor.

Foreign Languages/Language Requirement
Languages Exemption Policy
UNL and the College of Arts and Sciences will exempt or waive students from the UNL entrance requirement of two years of the same foreign language or from the College’s language distribution requirement based on documentation only. The following are the options and procedures for documentation:

High School Transcripts
For the University entrance requirement, students must show an official high school transcript with two or more years of the same foreign language.

For the College of Arts and Sciences College Distribution Requirement E-Language, students must show an official high school transcript with four or more years of the same foreign language in high school, or show evidence of graduation from a non-English-speaking foreign high school. Students whose native language is not English must show English as a Second Language study on an official high school transcript. Four years of ESL at the high school level (9th, 10th, 11th and 12th grades) will be the basis for a waiver of the CDR E Language requirement.

Proficiency Examination at UNL
For the University entrance requirement, students who do not have transcript documentation can request to take a proficiency exam in the language. (This is not the same test as the Modern Languages Placement Exam.) However, UNL will provide testing only in the languages it teaches. Currently, these languages are: Arabic, French, German, Spanish, Russian, Czech, Japanese, Chinese.

For the College of Arts and Sciences College Distribution Requirement E-Language, the Department of Modern Languages will oversee the test at the 202 level. If the student passes the test, the department will sign the College Request for Waiver form and indicate the level of proficiency. The form is then forwarded to the Arts and Sciences Advising Center for approval.

The Department of Modern Languages will oversee the test and provide written documentation to the Arts and Sciences Advising Center the level of proficiency passed.

Distance Education
For the University entrance requirement, students without transcript documentation who claim proficiency in a language not taught at UNL, have the option of seeking out a distance education program in languages. If the student completes the equivalent of 102 from an approved distance education program, the student will meet the UNL entrance requirement. The student must have the course work approved before he/she takes/completes the course as equivalent to 102 by a College advisor. The student then completes the course and has the distance education program send the transcript to the Admissions Office.

For the College of Arts and Sciences College Distribution Requirement E-Language, the student can seek out a distance education program and complete the equivalent of the 202-level course. The student must submit the request on the College Request for Substitution form and have the course work approved by a College advisor. The student then completes the course and has the distance education program send the transcript to the Admissions Office.

Third Language Option
If a student demonstrates knowledge of two foreign languages at the 102 level, the College of Arts and Sciences may consider waiving two semesters of the four semester College Distribution Requirement.
Pass/No Pass privileges in the College of Arts and Sciences are extended to students according to the following additional regulations:

- Pass/No Pass hours can count toward fulfillment of University ACE requirements and college distribution requirements up to the 24-hour maximum.
- Most Arts and Sciences departments and programs do not allow courses graded Pass/No Pass to apply to the major or minor. Students should refer to the department’s or program’s section of the catalog for clarification. By college rule, departments can allow up to 6 hours of Pass/No Pass in the major or minor.
- Departments may specify that certain courses of theirs can be taken only on a P/N basis.
- The college will permit no more than a total of 24 semester hours of P/N grades to be applied toward degree requirements. This total includes all Pass grades earned at UNL and other U.S. schools. **NOTE:** This 24-hour limit is more restrictive than the University regulation.

Grading Appeals
A student who feels that he/she has been unfairly graded must ordinarily take the following sequential steps in a timely manner, usually by initiating the appeal in the semester following the awarding of the grade:

1. Talk with the instructor concerned. Most problems are resolved at this point.
2. Talk to the instructor’s department chairperson.
3. Take the case to the Grading Appeal Committee of the department concerned. The Committee should be contacted through the department chairperson.
4. Take the case to the College Grading Appeals Committee by contacting the Dean’s Office, 1223 Oldfather Hall.

Course Level Requirements

**Courses Numbered above 299**

Thirty of the 120 semester hours of credit must be in courses numbered above 299. Of the 30 hours above 299, 15 hours (1/2) must be completed in residence at UNL.

Graduate Courses

Seniors in the University who have obtained in advance the approval of the dean for Graduate Studies may receive up to 12 hours credit for graduate courses taken in addition to the courses necessary to complete their undergraduate work, provided that such credits are earned within the calendar year prior to receipt of the baccalaureate. For procedures, inquire at the Office of Graduate Studies.

Course work taken prior to receipt of the baccalaureate may not always be accepted for transfer to other institutions as graduate work.

Residency

**Residency Requirement and Open Enrollment and Summer Independent Study Courses**

Students must complete at least 30 of the 120 total hours for their degree at UNL. Students must complete at least 1/2 of their major course work including 6 hours above 299 in their major, and 15 of the 30 hours required above 299 in residence. Credit earned during education abroad may be used toward the residency requirement if students register through UNL and participate in prior-approved education abroad programs. UNL open enrollment and summer independent study courses count toward residence.

ACE Requirements

Consistent with the mission and values of the University, ACE is based on a shared set of four institutional objectives and ten student learning outcomes. The ACE program was approved by faculty in all eight undergraduate colleges and endorsed by the Faculty Senate, the student government, and the Academic Planning Committee in January 2008 for implementation in the fall 2009. ACE aligns with current national initiatives in general education.

Key characteristics of ACE demonstrate the benefits of the program to students:

- Students receive a broad education with exposure to multiple disciplines, critical life skills and important reasoning, inquiry, and civic capacities.
- ACE is simple and transparent for students, faculty and advisors. Students complete the equivalent of 3 credit hours for each of the ten student learning outcomes.
- Students connect and integrate their ACE experiences with their selected major.
- Students can transfer all ACE certified courses across colleges within the institution to meet the ACE requirement and any course from outside the institution that is directly equivalent to a UNL ACE-certified course. Courses from outside institutions without direct equivalents may be considered with appropriate documentation for ACE credit (see academic advisor).

ACE allows faculty to assess and improve their effectiveness and facilitate students’ learning.

**ACE Institutional Objectives and Student Learning Outcomes**
To meet the ACE Program requirement, a student will complete a minimum of 3 credit hours for each of the ten ACE Student Learning Outcomes (a total of 30 ACE credit hours). See the ACE website at: http://ace.unl.edu for the most current information and the most recently certified courses.

**Catalog Rule**
Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted to and enrolled as a degree-seeking student at UNL. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Arts and Sciences. Students must complete all degree requirements from a single catalog year. Beginning in 1990-1991 the catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

**Learning Outcomes**
Majors in environmental studies will be able to:

1. Explain and apply appropriately the systemic principle of sustainability for the development of solutions to environmental and natural resource issues.
2. Organize, plan, and satisfactorily complete a senior project through scholarly creativity and/or in depth research that uses appropriate technical knowledge, field, laboratory, geospatial, and/or social science research methodologies.
3. Demonstrate the ability to critically assess environmental and sustainability issues from the local to global scale considering a range of perspectives.
4. Identify, explain, and evaluate problems/questions/issues using relevant data, resources and reasoning to form carefully considered conclusions.
5. Communicate effectively to a range of audiences through the preparation of written documents along with oral and visual presentations that are consistent with professional standards.
6. Describe the Earth’s four major spheres: land, water, living things, and air in the context of physical, geological, and biological processes, their variability over space and time, and the extent to which human’s influence them.
7. Effectively work in teams and groups from various backgrounds and perspectives to address environmental challenges.
8. Demonstrate improvement in professional and interpersonal skills such as collaboration, critical thinking, problem solving, empathy, and teamwork so they can effectively operate in society and the professional world.

### Major Requirements

#### Core Requirements

<table>
<thead>
<tr>
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<th>Credit Hours</th>
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<tbody>
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<td>ENVR 101</td>
<td>Environmental Studies Orientation</td>
<td>1</td>
</tr>
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<td>ENVR 201</td>
<td>Science, Systems, Environment and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 249</td>
<td>Individual and Cultural Perspectives on the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 319</td>
<td>Environmental Engagement and the Community</td>
<td>2</td>
</tr>
<tr>
<td>ENVR 495</td>
<td>Internship in Environmental Studies</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 499A</td>
<td>Environmental Studies Senior Thesis I</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 499B</td>
<td>Environmental Studies Senior Thesis II</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credit Hours: 13

1. ENVR 499A & ENVR 499B are the capstone courses for environmental studies majors. ENVR 499H (3 cr) is the capstone course for UNL Honors students.

#### Specific Major Requirements

**Earth and Environmental Systems**

**Ecology**
Select one of the following: 3-4

<table>
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<tr>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIOS 220 / NRES 220 &amp; BIOS 222</td>
<td>Principles of Ecology and Ecology Laboratory (Recommended)</td>
<td></td>
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<tr>
<td>BIOS 232</td>
<td>Ecological Issues in the Great Plains</td>
<td></td>
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<tr>
<td>BIOS 207</td>
<td>Ecology and Evolution</td>
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</tbody>
</table>

**Soil**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>SOIL 153 / AGRO 153 / HORT 153</td>
<td>Soil Resources</td>
<td>4</td>
</tr>
</tbody>
</table>

**Climate**
Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>NRES 104</td>
<td>Climate in Crisis</td>
<td></td>
</tr>
<tr>
<td>METR 100</td>
<td>Weather and Climate</td>
<td></td>
</tr>
<tr>
<td>METR 180</td>
<td>Environment, Energy, and Climate Change</td>
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<tr>
<td>NRES 208</td>
<td>Applied Climate Sciences</td>
<td></td>
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</tbody>
</table>

**Earth Systems**
Select one of the following: 3-4

<table>
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<tr>
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<tbody>
<tr>
<td>NRES 108</td>
<td>Earth’s Natural Resource Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENSC 110</td>
<td>Energy in Perspective</td>
<td></td>
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<tr>
<td>GEOL 101</td>
<td>Dynamic Earth</td>
<td></td>
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<tr>
<td>GEOL 106</td>
<td>Environmental Geology</td>
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<tr>
<td>GEOL 109</td>
<td>Oceanography</td>
<td></td>
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<tr>
<td>GEOL 120</td>
<td>Geology of National Parks and Monuments</td>
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<tr>
<td>GEOL 125</td>
<td>Frontiers in Antarctic Geosciences</td>
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<tr>
<td>GEOG 155</td>
<td>Elements of Physical Geography</td>
<td></td>
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<tr>
<td>GEOG 181</td>
<td>Quality of the Environment</td>
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</tbody>
</table>

**Water**
Select one of the following: 3

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENVR 189H</td>
<td>University Honors Seminar</td>
<td>3</td>
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</tbody>
</table>
Environmental Studies (ASC)

WATS 281 / GEOG 281 / NRES 281
SCIL 109 / AECN 109 / NRES 109

Introduction to Water Science
Water in Society

Introduction to Water Science

Select one of the following: 3-4
NRES 312 / GEOG 312
NRES 412 / GEOG 412
NRES 418 / GEOG 418
CRPL 433

Geospatial Science

Introduction to Geospatial Information Sciences
Introduction to Geographic Information Systems
Introduction to Remote Sensing
GIS in Environmental Design and Planning

Credit Hours Subtotal: 19-23

Human Dimensions Electives

Select two courses from two different departments: 6
AECN 256
AECN 276 / SOCI 241
AECN 346
AECN 357 / NREE 357
AECN 376
AECN 456 / NREE 456
AECN 457 / NREE 457 / WATS 457
ALEC 125
ALEC 202
ALEC 388 / AECN 388
ALEC 393
ALEC 410 / NRES 413
ANTH 110
ANTH 130
ANTH 170 / GEOG 170 / GPSP 170 / NRES 170 / SOCI 170
ANTH 212 / ETHN 212
ANTH 261 / POLS 261 / SOCI 261
ANTH 351 / ETHN 351
ANTH 454
ANTH 473

ANTH 476
BLAW 300
COMM 101
COMM 210
COMM 211 / ETHN 211
COMM 220
COMM 271
COMM 283
COMM 334 / POLS 334
COMM 465
COMM 371
COMM 375
CRPL 470
CYAF 460
ENSC 230
GEOG 140
GEOG 181
GEOG 272
GEOG 283
GEOG 304
GEOG 361
GEOG 406
GEOG 447
MNGT 300
NRES 111
NRES 301
NRES 409 / GEOG 409
NRES 423
NRES 475 / AGRO 475 / CIVE 475 / CRPL 475 / GEO 475 / MSYM 475 / POLS 475 / SOCI 475 / SOIL 475 / WATS 475
PHIL 225
POLS 104
POLS 130
POLS 150
POLS 160 / GLST 160
POLS 221
POLS 232

Environmental Rights, Environment, and Development
Business, Government & Society
Communication in the 21st Century
Communicating in Small Groups
Intercultural Communication
Public Advocacy and Civic Engagement
Organizing Social Change
Interpersonal Communication
Polls, Politics and Public Opinion
Communication and Social Identity
Communication in Negotiation and Conflict Resolution
Theories of Persuasion
Environmental Planning and Policy
Human Dimensions of Sustainability
Energy and the Environment: Economics and Policy
Introductory Human Geography
Quality of the Environment
Geography of World Regions
Space, the Environment and You
Historical Geography of the Great Plains
Urban Geography
Spatial and Environmental Influences in Social Systems
Political Geography
Management Essentials For Contemporary Organizations
Natural Resource Conservation in Society
Environmental Communication Skills
Human Dimensions of Natural Resources
Integrated Resources Management
Water Quality Strategy
Environmental Ethics
Comparative Politics
News Literacy, The Public, and Politics
Introduction to Biology, Psychology, and Politics
International Relations
Politics in State and Local Governments
Public Issues in America
POLS 250  Genetics, Brains, and Politics  
POLS 260  Problems in International Relations  
POLS 268  Threats to World Order  
POLS 334 / COMM 334  Polls, Politics and Public Opinion  
POLS 350  Issues in Biology, Psychology, and Politics  
POLS 362  Globalization, Human Rights and Diversity  
POLS 459  International Political Economy  
POLS 470  International Human Rights  
PSYC 181  Introduction to Psychology  
PSYC 288  The Psychology of Social Behavior  
PSYC 330  Psychology of Diversity  
SOCI 101  Introduction to Sociology  
SOCI 346  Environmental Sociology  
Select two courses from two different departments:  
SOCI 346  Environmental Sociology  
ANTH 473  Ecological Anthropology  
CYAF 460  Human Dimensions of Sustainability  
NRES 409 / GEOG 409  Human Dimensions of Natural Resources  
ENGL 317  Literature and the Environment  
AECN 456 / NREE 456  Environmental Law  
AECN 457 / NREE 457 / WATS 457  Water Law  
POLS 361  The United Nations and World Politics  
POLS 362  Globalization, Human Rights and Diversity  
PSYC 334 / ENV 334  Psychology of Environmental Sustainability  
CRPL 300  The Community and the Future  
CRPL 471  Environmental Impact Assessment  
AGRO 435 / HORT 435 / NRES 435  Agroecology  
NRES 434 / ENV 334  Environmental Education and Interpretation  
ALEC 410 / NRES 413  Environmental Leadership  
Credit Hours Subtotal:  12  

Economics and Policy  
Select one of the following:  
ECON 200  Economic Essentials and Issues  
ECON 211  Principles of Macroeconomics  
ECON 212  Principles of Microeconomics  
AECN 141  Introduction to the Economics of Agriculture  
Select one of the following:  
NRES 323  Natural Resources Policy  
CRPL 470  Environmental Planning and Policy  
AECN 345  Policy Issues in Agriculture and Natural Resources  
AECN 346  World Food Economics  
AECN 357  Natural Resource and Environmental Law  
Credit Hours Subtotal:  6  
Total Credit Hours  37-41  

Ancillary Requirements  
Ancillary Requirements for the BA  

Mathematics  
MATH 102  Trigonometry  2-5  
or MATH 103  College Algebra and Trigonometry  

Statistics  
STAT 218  Introduction to Statistics  3  

Biological Sciences  
Select one sequence:  4  
BIOS 101  General Biology  
& BIOS 101L  General Biology Laboratory  
or LIFE 120  Fundamentals of Biology I  
& LIFE 120L  Fundamentals of Biology I laboratory  

Chemistry  
Select one course:  4  
CHEM 105  Chemistry in Context I  
or CHEM 109 General Chemistry I  
or CHEM 113 Fundamental Chemistry I  

Physics  
Select one course:  3-5  
PHYS 115  Descriptive Physics  
or PHYS 141 Elementary General Physics I  
or PHYS 151 Elements of Physics  
Credit Hours Subtotal:  16-21  

Ancillary Requirements for the BS  

Mathematics  
MATH 106  Calculus I  5  

Statistics  
Select one course:  3  
STAT 218  Introduction to Statistics  
or STAT 380 Statistics and Applications  

Biological Sciences  
LIFE 120  Fundamentals of Biology I  4  
& LIFE 120L  Fundamentals of Biology I laboratory  
LIFE 121  Fundamentals of Biology II  4  
& LIFE 121L  Fundamentals of Biology II laboratory  

Chemistry  
Select one sequence:  7-8  
CHEM 109  General Chemistry I  
& CHEM 110  General Chemistry II  
or CHEM 113 Fundamental Chemistry I  
& CHEM 114 Fundamental Chemistry II  

Physics  
Select one course:  4-5  
PHYS 141  Elementary General Physics I  
or PHYS 211 General Physics I  
Credit Hours Subtotal:  27-29
**Minor Requirement**

Environmental studies majors must complete a Plan A minor or second major in one of the following areas:

- Anthropology
- Biological Sciences
- Chemistry
- Communication Studies
- Community and Regional Planning
- English
- Environmental Education
- Geography
- Geology
- Meteorology/Climatology
- Political Science
- Psychology
- Sociology

**Additional Major Requirements**

**Grade Rules**

**C- and D Grades**

A grade of C or higher is required in all major courses with the exception of ancillary courses.

**Pass/No Pass**

No courses taken Pass/No Pass will count toward the major or minor.

**Requirements for Minor Offered by Department**

Eighteen (18) hours, with 6 hours at the 300 level or above.

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**Earth and Environmental Systems**

Select one course from the Earth and Environmental Systems section of the major.

| Credit Hours Subtotal | 9 |

**Human Dimensions**

Select one course from the Human Dimensions section of the major.

| Credit Hours Subtotal | 3 |

**Economics and Policy**

Select one course from the Economics and Policy section of the major.

| Credit Hours Subtotal | 3 |

Total Credit Hours 18

**Select one course from the Economics and Policy section of the major.**

| Credit Hours Subtotal | 3 |

**Grade Rules**

**C- and D Grades**

A grade of C or higher is required in all minor courses with the exception of ancillary courses.

**Pass/No Pass**

No courses taken Pass/No Pass will count toward the major or minor.

ENVR 101 Environmental Studies Orientation

**Description:** A comprehensive overview of the discipline of Environmental Studies. Investigate current and critical environmental issues.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Format:** LEC

ENVR 109 Water in Society

**Crosslisted with:** SCIL 109, AECN 109, NRES 109, GEOG 109

**Description:** Introduction to the scientific, social, and economic dimensions of historical and contemporary water systems. Students will develop an understanding of hydrologic systems and analyze and engage in decision-making about complex challenges associated with water resource use.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Format:** LEC

**Offered:** FALL

**ACE:** ACE 8 Civic/Ethics/Stewardship ACE 4 Science

ENVR 189H University Honors Seminar

**Prerequisites:** Good standing in the University Honors Program or by invitation.

**Notes:** A University Honors Seminar 189H course is required of all students in the University Honors Program. ENVR 189H is ‘Letter Grade Only’.

**Description:** Topics vary.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Format:** LEC

**ACE:** ACE 8 Civic/Ethics/Stewardship

ENVR 201 Science, Systems, Environment and Sustainability

**Description:** Application of basic Earth system and ecosystem science concepts for understanding: natural systems; the relationships and interactions between the living and the non-living environment; current and future environmental challenges; the importance of considering scientific evidence and uncertainty; and the implementation of the sustainability concepts.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Format:** LEC

**ACE:** ACE 8 Civic/Ethics/Stewardship
ENVR 249 Individual and Cultural Perspectives on the Environment  
Crosslisted with: NRES 249  
**Description:** The influence of culture on individual perspectives related to the concepts of sustainability and the relationship that humans have with the environment. The role of ethics, religion, and historical setting on the individual and cultural perspectives related to environmental challenges at the local to global scales.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC  
**ACE:** ACE 9 Global/Diversity

ENVR 319 Environmental Engagement and the Community  
**Description:** The processes of environmental agencies and organizations use to develop and implement projects and programs. The development of their project proposal, work plans, budgets, and final report. ENVR 319 requires developing and implementing projects and programs in collaboration with clients who are from agencies and organizations working with environmental issues.  
**Credit Hours:** 2  
**Max credits per semester:** 2  
**Max credits per degree:** 2  
**Format:** LEC

ENVR 334 Psychology of Environmental Sustainability  
Crosslisted with: PSYC 334  
**Description:** Applications of psychological principles to understand human transactions with their environments and find behavior-based solutions to environmental problems.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC  
**ACE:** ACE 8 Civic/Ethics/Stewardship

ENVR 434 Environmental Education and Interpretation  
Crosslisted with: NRES 434, NRES 834  
**Description:** Examination of formal and informal environmental education and interpretation. Knowledge, application and practice relevant to science teachers and park, extension, museums, and zoo educators. Requires 20 hours of service.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

ENVR 491 Environmental Studies Seminar  
**Prerequisites:** Senior standing; ENVR major or minor; or permission of program director.  
**Description:** Topic varies.  
**Credit Hours:** 1-3  
**Min credits per semester:** 1  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

ENVR 495 Internship in Environmental Studies  
**Prerequisites:** Junior standing; environmental studies major; prior arrangement with and permission of environmental program director and emphasis adviser.  
**Description:** Experience in off-campus setting that is directly relevant to environmental studies.  
**Credit Hours:** 1-4  
**Min credits per semester:** 1  
**Max credits per semester:** 4  
**Max credits per degree:** 12  
**Format:** IND

ENVR 496 Independent Study  
**Prerequisites:** Environmental studies major; prior arrangement with and permission of program director and emphasis adviser.  
**Credit Hours:** 1-4  
**Min credits per semester:** 1  
**Max credits per semester:** 4  
**Max credits per degree:** 12  
**Format:** IND

ENVR 499A Environmental Studies Senior Thesis I  
**Prerequisites:** Junior standing; environmental studies major or minor; prior arrangement with program director and emphasis adviser or academic adviser.  
**Notes:** First course of a two-semester sequence of courses consisting of ENVR 499A and 499B. Letter Grade only.  
**Description:** Preparation for writing the senior thesis.  
**Credit Hours:** 1  
**Max credits per semester:** 1  
**Max credits per degree:** 1  
**Format:** LEC  
**Prerequisite for:** ENVR 499B  
**ACE:** ACE 10 Integrated Product

ENVR 499B Environmental Studies Senior Thesis II  
**Prerequisites:** Environmental studies major; prior arrangement with and permission of program director and emphasis adviser.  
**Notes:** Second course of a two-semester sequence of courses consisting of ENVR 499A and 499B. The thesis is to be written under the supervision of the emphasis adviser or a faculty member designated by the adviser. A committee of two (the faculty member guiding the thesis and an additional member with expertise in the topic) will review the thesis.  
**Credit Hours:** 2  
**Max credits per semester:** 2  
**Max credits per degree:** 2  
**Format:** IND  
**ACE:** ACE 10 Integrated Product

ENVR 499H Honors: Environmental Studies Senior Thesis I & II  
**Prerequisites:** Junior standing; good standing in the University Honors Program; ENVR major or minor; prior arrangement with program director, emphasis adviser, and honors program adviser.  
**Description:** Preparation for writing the senior thesis.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** IND  
**ACE:** ACE 10 Integrated Product

**PLEASE NOTE**  
This document represents a sample 4-year plan for degree completion with this major. Actual course selection and sequence may vary and should be discussed individually with your college or department academic advisor. Advisors also can help you plan other experiences to enrich your undergraduate education such as internships, education...
abroad, undergraduate research, learning communities, and service learning and community-based learning.

### Environmental Studies (B.A.)

#### 15 HR TERM 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Envr Studies Orientation</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>complete ENVR 101</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ENVR 101 is ideally completed in the first term of enrollment. It becomes critical to your success in the major if not completed by the second term of enrollment.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 201</td>
<td>3</td>
<td>C</td>
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</table>

ENVR 201 will fulfill the ACE 8 requirement.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>complete MATH 103</td>
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</table>

MATH 103 is ideally completed in the first term of enrollment. It becomes critical to your success in the major if not completed by the second term of enrollment.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE 1 Written Texts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>complete 1 from ACE1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDR E: Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>recommend 1 or more courses</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If not complete, choose a language course according to your placement and proficiency. CDR E is met after 4th level (202) of most languages.

#### 16 HR TERM 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life Science</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>complete 2 from LIFE 120, LIFE 120L, BIOS 101, BIOS 101L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Complete one set - lecture and lab. LIFE 120 and 120L are ideally completed in the second term of enrollment. They become critical to your success in the major if not completed by the third term of enrollment. They will fulfill the CDR B and CDR BL requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>complete STAT 218</td>
<td></td>
<td></td>
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</tbody>
</table>

STAT 218 will fulfill the ACE 3 requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDR D: Social Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>complete 1 from Any Communications Course, Any National Securities Studies Course, Any Psychology Course, Any Anthropology Course, Any Geography Course, Any Political Science Course, Any Sociology Course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Recommended to choose a course that will also work towards fulfilling the Human Dimensions requirements.

**ACE 5 Humanities**
complete 1 from ACE5

**Electives**
complete Any Course

In consultation with your advisor, select elective courses or courses that meet a 2nd major, minor, sci-base or upper level requirement.

**16 HR TERM 4**

**Envr Studies Core**
complete ENVR 319

**Earth Systems: Ecology**
complete 1 from BIOS 207, BIOS 220, BIOS 222, BIOS 232

**Chemistry**
complete 1 from CHEM 105, CHEM 109, CHEM 113

This course will fulfill the CDR F (Additional Breadth) requirement.

**CDR A: Writing**
complete 1 from ACE1

Complete an additional course approved as ACE 1.

**Electives**
complete Any Course

In consultation with your advisor, select elective courses or courses that meet a 2nd major, minor, sci-base or upper level requirement.

**18 HR TERM 5**

**Earth Systems: Soil**
complete SOIL 153

**Physics**
complete 1 from PHYS 115, PHYS 141, PHYS 151

**Anthropology**
recommend 1 or more courses

Complete a 300 or 400 level course from the Human Dimensions Electives list, Anthropology is just one choice.

**Electives**
complete Any Course

In consultation with your advisor, select elective courses or courses that meet a 2nd major, minor, sci-base or upper level requirement.

**13 HR TERM 6**

**Envr Studies Core**
complete ENVR 495

**Economics**
complete 1 from AECN 141, ECON 200, ECON 211, ECON 212

**Earth Systems: Water**
complete either ENVR 189H or WATS 281

**CDR C: Humanities**
complete 1 from Any Arabic Course at the 300 Level, Any Classics Course, Any Czech Course at the 300 Level, Any Czech Course at the 400 Level, Any English Course, FREN 282, Any French Course at the 300 Level, Any French Course at the 400 Level, GERM 282, Any German Course at the 300 Level, Any German Course at the 400 Level, Any Greek Course at the 300 Level, Any Greek Course at the 400 Level, Any Hebrew Course at the 300 Level, Any History Course, Any Japanese Course at the 300 Level, Any Latin Course at the 300 Level, Any Latin Course at the 400 Level, Any Philosophy Course, Any Religious Studies Course at any Level, Any Russian Course at the 300 Level, Any Russian Course at the 400 Level, SPAN 264, SPAN 265, Any Spanish Course at the 300 Level, Any Spanish Course at the 400 Level

Complete an approved course from a Humanities discipline: ARAB, CLAS, CZEC, ENGL, FILM, FREN, GERM, GREK, HEBR, HIST, JAPN, LATIN, PHIL, RELG, RUSS, SPAN.

**Electives**

**complete Any Course**

In consultation with your advisor, select elective courses or courses that meet a 2nd major, minor, sci-base or upper level requirement.

**17 HR TERM 7**

**Envr Studies Core**

**complete ENVR 499A**

**Psychology**

**recommend 1 or more courses**

Complete a 300 or 400 level course from the Human Dimensions Electives list, Psychology is just one choice.

**Earth Systems: Geog/Geol**

**complete 1 from ACE7, ENSC 110, GEOG 155, GEOG 181, GEOL 101, GEOL 106, GEOL 109, GEOL 120, GEOL 125, NRES 108**

**ACE 7 Arts**

**complete 1 from ACE7**

**Electives**

**complete Any Course**

In consultation with your advisor, select elective courses or courses that meet a 2nd major, minor, sci-base or upper level requirement.

**18 HR TERM 8**

**Envr Studies Core**

**complete ENVR 499B**

**Earth Sys: Geospatial Sci**

**complete 1 from CRPL 433, NRES 312, NRES 412, NRES 418**

**Policy**

**complete 2 from Any Course, Aecn 345, Aecn 346, Aecn 357, CRPL 470, NRES 323**

**Electives**

**complete Any Course**

In consultation with your advisor, select elective courses or courses that meet a 2nd major, minor, sci-base or upper level requirement.

**Graduation Requirements**

1. A minimum 2.00 GPA required for graduation.
2. ***Total Credits Applying Toward 120 Total Hours***
3. Complete 30 hours in residence at UNL.

**Environmental Studies (B.S.)**

**16 HR TERM 1**

**Envr Studies Orientation**

**complete ENVR 101**
Environmental Studies (ASC)

ENVR 101 is ideally completed in the first term of enrollment. It becomes critical to your success in the major if not completed by the second term of enrollment.

Envr Studies Core

- complete ENVR 201

ENVR 201 will fulfill the ACE 8 requirement.

Mathematics

- complete MATH 106

MATH 106 is ideally completed in the first term of enrollment. It becomes critical to your success in the major if not completed by the second term of enrollment. It will fulfill the ACE 3 requirement.

Chemistry

- complete either CHEM 109 or CHEM 113

This course will fulfill the ACE 4 requirement.

CDR E: Language

- recommend 1 or more courses

If not complete, choose a language course according to your placement and proficiency. CDR E is met after 4th level (202) of most languages.

16 HR TERM 2

Envr Studies Core

- complete ENVR 249

ENVR 249 will fulfill the ACE 9 requirement.

Life Science

- complete LIFE 120, LIFE 120L

LIFE 120 and 120L are ideally completed in the second term of enrollment. They become critical to your success in the major if not completed by the third term of enrollment. They will fulfill the CDR B and CDR BL requirements.

Chemistry

- complete either CHEM 110 or CHEM 114

This course will fulfill the CDR F requirement.

CDR E: Language

- recommend 1 or more courses

If not complete, choose a language course according to your placement and proficiency. CDR E is met after 4th level (202) of most languages.

16 HR TERM 3

Life Science

- complete LIFE 121, LIFE 121L

Statistics

- complete STAT 218

ACE 6 Social Sciences

- complete 1 from ACE6

Recommended to take a course that will also count towards a Human Dimensions requirement.

ACE 1 Written Texts

- complete 1 from ACE1

ACE 5 Humanities

- complete 1 from ACE5

16 HR TERM 4

Envr Studies Core

- complete ENVR 319
Earth Systems: Ecology
complete 1 from BIOS 207, BIOS 220, BIOS 222, BIOS 232

Earth Systems: Climate
complete 1 from METR 100, METR 180, NRES 104, NRES 208

CDR D: Social Sciences
complete 1 from Any National Securities Studies Course, Any Geography Course, Any Anthropology Course, Any Communications Course, Any Political Science Course, Any Psychology Course, Any Sociology Course

Recommended to take a course that will also count towards a Human Dimensions requirement.

CDR A: Writing
complete 1 from ACE1

Complete an additional course approved as ACE 1.

15 HR TERM 5

Earth Systems: Soil
complete SOIL 153

Physics
complete either PHYS 141 or PHYS 211

Anthropology
recommend 1 or more courses

Recommended to take a 300 or 400 course that will count towards a Human Dimensions requirement, Anthropology is just one choice.

17 HR TERM 6

Envr Studies Core
complete ENVR 495

Earth Systems: Geog/Geol
complete 1 from ENSC 110, GEOG 155, GEOG 181, GEOL 101, GEOL 106, GEOL 109, GEOL 120, GEOL 125, NRES 108

3hr

Earth Systems: Water
complete WATS 281

3hr

Economics
complete 1 from AECN 141, ECON 200, ECON 211, ECON 212

3hr

Electives
complete Any Course

Choose two courses that meet a minor requirement.

13 HR TERM 7

Envr Studies Core
complete ENVR 499A

1hr

Political Science
recommend 1 or more courses
Recommended to take a 300 or 400 level course that will count towards a Human Dimensions requirement, Political Science is just one choice.

**CDR C: Humanities**

complete 1 from Any Arabic Course at the 300 Level, Any Classics Course, Any Czech Course at the 300 Level, Any Czech Course at the 400 Level, Any English Course, FREN 282, Any French Course at the 300 Level, Any French Course at the 400 Level, GERM 282, Any German Course at the 300 Level, Any German Course at the 400 Level, Any Greek Course at the 300 Level, Any Greek Course at the 400 Level, Any Hebrew Course at the 300 Level, Any History Course, Any Japanese Course at the 300 Level, Any Latin Course at the 300 Level, Any Latin Course at the 400 Level, Any Philosophy Course, Any Religious Studies Course at any Level, Any Russian Course at the 300 Level, Any Russian Course at the 400 Level, GERM 282, Any German Course at the 300 Level, Any German Course at the 400 Level, Any Greek Course at the 300 Level, Any Greek Course at the 400 Level, Any Hebrew Course at the 300 Level, Any History Course, Any Japanese Course at the 300 Level, Any Latin Course at the 300 Level, Any Latin Course at the 400 Level, Any Philosophy Course, Any Religious Studies Course at any Level, Any Russian Course at the 300 Level, Any Russian Course at the 400 Level, SPAN 264, SPAN 265, Any Spanish Course at the 300 Level, Any Spanish Course at the 400 Level

Complete an approved course from a Humanities discipline: ARAB, CLAS, CZEC, ENGL, FILM, FREN, GERM, GREK, HEBR, HIST, JAPN, LATN, PHIL, RELG, RUSS, SPAN.

**Electives**

complete Any Course

Choose two courses that meet a minor requirement.

**17 HR TERM 8**

**Envr Studies Core**

complete ENVR 499B

ENVR 499A and 499B fulfills the ACE 10 requirement.

**Earth Sys: Geospatial Sci**

complete 1 from CRPL 433, NRES 312, NRES 412, NRES 418

**ACE 7 Arts**

complete 1 from ACE7

**Policy**

3hr complete 1 from AECN 345, AECN 346, AECN 357, CRPL 470, NRES 323

C 3hr

**Electives**

complete Any Course

Choose one course that meets a minor requirement and one elective course.

**Graduation Requirements**

1. A minimum 2.00 GPA required for graduation.
2. ***Total Credits Applying Toward 120 Total Hours***
3. Complete 30 hours in residence at UNL.

**Career Information**

The following represents a sample of the internships, jobs and graduate school programs that current students and recent graduates have reported.

**Transferable Skills**

- Comprehend and critically evaluate complex information
- Use quantitative analytical computational techniques
- Present information and research to large and small groups
- Motivate others to achieve common goals
- Coordinate people, activities, and event details
- Make predictions using mathematical, statistical, and scientific modeling methods
- Understand and use proper laboratory and technical skills and instruments
- Define problems and identifying causes
- Simplify complex information and present it to others
- Apply mathematical and scientific skills to solve real-world problems

**Jobs of Recent Graduates**

- Environmental Scientist, Terracon Consultants, Inc. - Omaha NE
- Corps Member, Montana Conservation Corps - Bozeman MT
- Volunteer, Peace Corps - Washington DC DC
- Wildland Firefighter, United States Forest Service - Kalispell MT
- Greenhouse Assistant, Urban Trail Gardens - Lincoln NE
- Sustainability Associate, Cleaner Greener Lincoln - Lincoln NE
- Project Coordinator, Lincoln-Lancaster County Health Dept - Lincoln NE
- Assistant Brewer, Blue Mountain Brewery - Arrington VA
- National Drought Mitigation Center, University of Nebraska-Lincoln - Lincoln NE
- Wildlife Technician, Nebraska Invasive Species Project - Lincoln NE

**Internships**

- Integrated Water Management Planner Assistant, Nebraska Dept of Natural Resources - Lincoln NE
- Biological Technician, USDA-AMRU - Lincoln NE
- Natural Resource Intern, JEO Consulting - Lincoln NE
• Pathways Intern, USDA Natural Resources Conservation Service - Lincoln NE
• Integrated Management Technical Assistant, NE Dept of Natural Resources - Lincoln NE
• Environmental Health Waste Section Intern, Lincoln-Lancaster County Health Dept - Lincoln NE
• Intern, Olsson Associates - La Vista NE
• Crime Analysis, Lincoln Police Department - Lincoln NE
• Project Manager Assistant Intern, LI-COR Biosciences - Lincoln NE
• Waste Section Intern, Lancaster County Health Department - Lincoln NE

Grad Schools
• Masters in Natural Resources, University of Nebraska-Lincoln - Lincoln NE
• Masters in Community and Regional Planning, University of Nebraska-Lincoln - Lincoln NE
• J.D. College of Law, University of Nebraska-Lincoln - Lincoln NE
• Master of Agronomy-Plant Pathology, University of Nebraska-Lincoln - Lincoln NE
• Environmental Science and Policy, Indiana University - Bloomington IN
• MS of Energy, Technology, Policy, Humboldt State University - Arcata CA
• M.S. in Environmental Policy, University of Michigan - Ann Arbor MI
• MA Geography, University of Nebraska-Lincoln - Lincoln NE
• Masters of Public Health, University of Nebraska Medical Center - Omaha NE
• Water Biogeochemistry, University of Nebraska-Lincoln - Lincoln NE