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>
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</table>

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

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.

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

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

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

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.

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.

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.
E-Languages requirement. If this waiver were granted, the student would then be required to complete 101 and 102 in another, 3rd foreign language at UNL.

Minimum Hours Required for Graduation
A minimum of 120 semester hours of credit is required for graduation from the College of Arts and Sciences. A total grade point average of at least 2.0 is required.

Grade Rules
Restrictions on C- and D Grades
The College will accept no more than 15 semester hours of C- and D grades from other schools except for UNO and UNK. No transfer C- and D grades can be applied toward requirements in a major or a minor. No UNL C- and D grades can be applied toward requirements in a major or a minor.

Pass/No Pass Privilege
University regulations for the Pass/No Pass (P/N) privilege state:

- The Pass/No Pass option is designed for your use by seeking to expand your intellectual horizons by taking courses in areas where you may have had minimal preparation.
- Neither the P nor the N grade contribute to your GPA.
- P is interpreted to mean C or above.
- A change to or from a Pass/No Pass may be made until mid-term (see academic calendar for specific dates per term).
- The Pass/No Pass or grade registration cannot conflict with the policy of the professor, department, college, or University governing the grading option.
- Changing to or from Pass/No Pass requires using the MyRED system to change the grading option or filing a Drop/Add form with the Office of the University Registrar, 107 Canfield Administration Building. After mid-term of the course, a student registered for Pass/No Pass cannot change to a grade registration unless the Pass/No Pass registration is in conflict with the policy of the professor, department, college, or University governing grading option.
- The Pass/No Pass grading option cannot be used for the removal of C- or D or F grades.

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.

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**Major Requirements**

**Core Requirements**

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

**Total Credit Hours** 13

**Specific Major Requirements**

**Earth and Environmental Systems**

**Ecology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOS 220 / NRES 220 / BIOS 222</td>
<td>Principles of Ecology and Ecology Laboratory (Recommended)</td>
<td>3-4</td>
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<tr>
<td>BIOS 232</td>
<td>Ecological Issues in the Great Plains</td>
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<td>BIOS 207</td>
<td>Ecology and Evolution</td>
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**Soil**

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<tr>
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<tbody>
<tr>
<td>SOIL 153 / AGRO 153 / HORT 153</td>
<td>Soil Resources</td>
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**Climate**

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<tr>
<td>NRES 104</td>
<td>Climate in Crisis</td>
<td>3-4</td>
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<tr>
<td>METR 100</td>
<td>Weather and Climate</td>
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<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>
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**Earth Systems**

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<th>Title</th>
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<tbody>
<tr>
<td>NRES 108</td>
<td>Earth’s Natural Resource Systems Laboratory</td>
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<tr>
<td>ENSC 110</td>
<td>Energy in Perspective</td>
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<tr>
<td>GEOL 101</td>
<td>Dynamic Earth</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>
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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>
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<tr>
<td>GEOG 181</td>
<td>Quality of the Environment</td>
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**Water**

Select one of the following: 3

<table>
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<tr>
<td>ENVR 189H</td>
<td>University Honors Seminar</td>
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<tr>
<td>WATS 281 /</td>
<td>Introduction to Water Science</td>
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<tr>
<td>GEOG 281 /</td>
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<tr>
<td>NRES 281</td>
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<tr>
<td>SCIL 109 /</td>
<td>Water in Society</td>
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<tr>
<td>AECN 109 /</td>
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<tr>
<td>NRES 109</td>
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**Geospatial Science**

Select one of the following:  

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<tr>
<td>NRES 312 /</td>
<td>Introduction to Geospatial Information Sciences</td>
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<td>GEOG 312</td>
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<tr>
<td>NRES 412 /</td>
<td>Introduction to Geographic Information Systems</td>
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<td>GEOG 412</td>
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<tr>
<td>NRES 418 /</td>
<td>Introduction to Remote Sensing</td>
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<td>GEOG 418</td>
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<tr>
<td>CRPL 433</td>
<td>GIS in Environmental Design and Planning</td>
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Credit Hours Subtotal: 19-23

**Human Dimensions Electives**

Select two courses from two different departments: 6

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<tr>
<td>AECN 256</td>
<td>Legal Aspects in Agriculture</td>
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<td>AECN 276 /</td>
<td>Rural Sociology</td>
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<td>SOCI 241</td>
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<td>AECN 346</td>
<td>World Food Economics</td>
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<td>AECN 357 /</td>
<td>Natural Resource and Environmental Law</td>
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<td>NREE 357</td>
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<td>AECN 376</td>
<td>Rural Community Economics</td>
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<td>AECN 456 /</td>
<td>Environmental Law</td>
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<td>NREE 456</td>
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<td>Water Law</td>
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<td>NREE 457 /</td>
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<td>WATS 457</td>
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<tr>
<td>ALEC 125</td>
<td>Land, Food and People</td>
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<tr>
<td>ALEC 202</td>
<td>Foundations of Leadership Theory and Practice</td>
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<td>ALEC 388 /</td>
<td>Ethics in Agriculture and Natural Resources</td>
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<td>AECN 388</td>
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<tr>
<td>ALEC 393</td>
<td>Digital Imaging and Storytelling in</td>
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<td></td>
<td>Agriculture and Natural Resources</td>
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<td>Environmental Leadership</td>
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<td>ANTH 110</td>
<td>Introduction to Anthropology</td>
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<td>ANTH 130</td>
<td>Anthropology of the Great Plains</td>
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<td>ANTH 170 /</td>
<td>Introduction to Great Plains Studies</td>
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<td>GEOG 170 /</td>
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<td>GPSP 170 /</td>
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<td>SOCI 170</td>
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<td>ANTH 212 /</td>
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<td>ETHN 212</td>
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<tr>
<td>ANTH 261 /</td>
<td>Conflict and Conflict Resolution</td>
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<td>POLS 261 /</td>
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<td>SOCI 261</td>
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<tr>
<td>ANTH 351 /</td>
<td>Indigenous Peoples of North America</td>
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<td>ANTH 454</td>
<td>Ethnographic Field School</td>
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<tr>
<td>ANTH 473</td>
<td>Ecological Anthropology</td>
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<td>ANTH 476</td>
<td>Human Rights, Environment, and Development</td>
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<td>BLAW 300</td>
<td>Business, Government &amp; Society</td>
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<td>COMM 101</td>
<td>Communication in the 21st Century</td>
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<td>Communicating in Small Groups</td>
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<td>COMM 211 /</td>
<td>Intercultural Communication</td>
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<td>COMM 220</td>
<td>Public Advocacy and Civic Engagement</td>
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<td>Organizing Social Change</td>
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<td>COMM 283</td>
<td>Interpersonal Communication</td>
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<td>COMM 334 /</td>
<td>Polls, Politics and Public Opinion</td>
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<td>POLS 334</td>
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<tr>
<td>COMM 371</td>
<td>Communication in Negotiation and Conflict Resolution</td>
</tr>
<tr>
<td>COMM 375</td>
<td>Theories of Persuasion</td>
</tr>
<tr>
<td>CRPL 470</td>
<td>Environmental Planning and Policy</td>
</tr>
<tr>
<td>CYAF 460</td>
<td>Human Dimensions of Sustainability</td>
</tr>
<tr>
<td>ENSC 230</td>
<td>Energy and the Environment: Economics and Policy</td>
</tr>
<tr>
<td>GEOG 140</td>
<td>Introductory Human Geography</td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Quality of the Environment</td>
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<tr>
<td>GEOG 272</td>
<td>Geography of World Regions</td>
</tr>
<tr>
<td>GEOG 283</td>
<td>Space, the Environment and You</td>
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<tr>
<td>GEOG 334</td>
<td>Historical Geography of the Great Plains</td>
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<tr>
<td>GEOG 361</td>
<td>Urban Geography</td>
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<tr>
<td>GEOG 406</td>
<td>Spatial and Environmental Influences in Social Systems</td>
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<tr>
<td>GEOG 447</td>
<td>Political Geography</td>
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<tr>
<td>MNGT 300</td>
<td>Management Essentials For Contemporary Organizations</td>
</tr>
<tr>
<td>NRES 111</td>
<td>Natural Resource Conservation in Society</td>
</tr>
<tr>
<td>NRES 301</td>
<td>Environmental Communication Skills</td>
</tr>
<tr>
<td>NRES 409 /</td>
<td>Human Dimensions of Natural Resources</td>
</tr>
<tr>
<td>GEOG 409</td>
<td></td>
</tr>
<tr>
<td>NRES 423</td>
<td>Integrated Resources Management</td>
</tr>
<tr>
<td>NRES 475 /</td>
<td>Water Quality Strategy</td>
</tr>
<tr>
<td>AGRO 475 /</td>
<td></td>
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<tr>
<td>CIVE 475 /</td>
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<tr>
<td>CRPL 475 /</td>
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<td>GEOL 475 /</td>
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<td>MSYM 475 /</td>
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<td>POLS 475 /</td>
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<td>SOCI 475 /</td>
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<td>SOIL 475 /</td>
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<tr>
<td>WATS 475</td>
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</tr>
<tr>
<td>PHIL 225</td>
<td>Environmental Ethics</td>
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<tr>
<td>POLS 104</td>
<td>Comparative Politics</td>
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<tr>
<td>POLS 130</td>
<td>News Literacy, The Public, and Politics</td>
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<tr>
<td>POLS 150</td>
<td>Introduction to Biology, Psychology, and Politics</td>
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<tr>
<td>POLS 160 /</td>
<td>International Relations</td>
</tr>
<tr>
<td>GLST 160</td>
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</tr>
<tr>
<td>POLS 221</td>
<td>Politics in State and Local Governments</td>
</tr>
<tr>
<td>POLS 232</td>
<td>Public Issues in America</td>
</tr>
</tbody>
</table>
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: 6
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 / ENVR 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 / ENVR 434  Environmental Education and Interpretation
ALEC 410 / NRES 413  Environmental Leadership
Credit Hours Subtotal: 12

Economics and Policy
Select one of the following: 3
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: 3
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
or MATH 103  College Algebra and Trigonometry

Statistics
STAT 218  Introduction to Statistics

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

Credit Hours Subtotal: 16-21

Ancillary Requirements for the BS

Mathematics
MATH 106  Calculus I

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

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

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

Physics
Select one course: 4-5
PHYS 115  Descriptive Physics
or PHYS 141  Elementary General Physics I
or PHYS 151  Elements of Physics

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 101</td>
<td>Environmental Studies Orientation</td>
<td>1</td>
</tr>
<tr>
<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></td>
<td>Credit Hours Subtotal:</td>
<td>9</td>
</tr>
<tr>
<td>Earth and Environmental Systems</td>
<td>Select one course from the Earth and Environmental Systems section of the major.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>3</td>
</tr>
<tr>
<td>Human Dimensions</td>
<td>Select one course from the Human Dimensions section of the major.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>3</td>
</tr>
<tr>
<td>Economics and Policy</td>
<td>Select one course from the Economics and Policy section of the major.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credit Hours Subtotal:</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Credit Hours Subtotal: 3

Total Credit Hours: 18

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: ENVR 499A
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...
Environmental Studies (B.A.)

15 HR TERM 1

Envr Studies Orientation
complete ENVR 101

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 103

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.

ACE 1 Written Texts
complete 1 from ACE1

ACE 6 Social Sciences
complete 1 from ACE6

Recommended to choose a course that will also work towards fulfilling the Human Dimensions requirements.

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

This course will fulfill the ACE 4 requirement.

ACE 2 Communication Skill
complete 1 from ACE2

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.

ACE 6 Social Sciences
complete 1 from ACE6

Recommended to choose a course that will also work towards fulfilling the Human Dimensions requirements.

ACE 6 Social Sciences
complete 1 from ACE6

Recommended to choose a course that will also work towards fulfilling the Human Dimensions requirements.

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

This course will fulfill the ACE 4 requirement.

ACE 2 Communication Skill
complete 1 from ACE2

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 2 from LIFE 120, LIFE 120L, BIOS 101, BIOS 101L

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.

Statistics
complete STAT 218

STAT 218 will fulfill the ACE 3 requirement.

CDR D: Social Sciences
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
Recommended to choose a course that will also work towards fulfilling the Human Dimensions requirements.

ACE 5 Humanities
complete 1 from ACE5

3hr

Electives
complete Any Course

3hr

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

2hr

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

4hr

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

4hr

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

CDR A: Writing
complete 1 from ACE1

3hr

Complete an additional course approved as ACE 1.

Electives
complete Any Course

3hr

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

4hr

C

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

5hr

Anthropology
recommend 1 or more courses

3hr

C

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

Electives
complete Any Course

6hr

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

1hr

C

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

3hr

C

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

3hr

C

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

**Electives**

**complete Any Course**

3 hr

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**

1 hr

**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**

4 hr

**ACE 7 Arts**

**complete 1 from ACE7**

3 hr

**Electives**

**complete Any Course**

6 hr

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**

2 hr

ENVR 499A and 499B will fulfill the ACE 10 requirement.

**Earth Sys: Geospatial Sci**

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

4 hr

**Policy**

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

6 hr

**Electives**

**complete Any Course**

6 hr

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**

1 hr
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

3hr

ENVR 201 will fulfill the ACE 8 requirement.

**Mathematics**
complete MATH 106

5hr

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

4hr

This course will fulfill the ACE 4 requirement.

**CDR E: Language**
recommend 1 or more courses

3hr

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 120, LIFE 120L

4hr

**Statistics**
complete STAT 218

3hr

**ACE 6 Social Sciences**
complete 1 from ACE6

3hr

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

**ACE 1 Written Texts**
complete 1 from ACE1

3hr

**ACE 5 Humanities**
complete 1 from ACE5

3hr

**16 HR TERM 4**

**Envr Studies Core**
complete ENVR 319

2hr

LIFE 120 and 120L are ideally completed in the second term of enrollment. They become critical to your success in teh major if not
17 HR TERM 6

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
4hr

Earth Systems: Water
complete WATS 281
3hr

Economics
complete 1 from AECN 141, ECON 200, ECON 211, ECON 212
3hr

Electives
complete Any Course
6hr

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
3hr
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, SPAN 264, SPAN 265, Any Spanish Course at the 300 Level, Any Spanish Course at the 400 Level

**Electives**

complete Any Course

Choose two courses that meet a minor requirement.

**17 HR TERM 8**

**Envr Studies Core**

complete ENVR 499B

**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

**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, Humbolt 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