ENVIRONMENTAL & SUSTAINABILITY STUDIES (CASNR)

Description
Website: esp.unl.edu (http://esp.unl.edu/)

The environmental and sustainability studies major is designed for students who want to make a difference and contribute to solving environmental challenges on a local to global scale. Environmental and sustainability studies is focused on solutions. 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 and sustainability studies major provides the knowledge and skills needed for students to work across disciplines and to be competitive in the job market. The environmental and sustainability 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.

Students may choose to minor in environmental studies or minor in sustainability studies as alternatives to pursuing their interests in environment and sustainability.

Options
Students may choose to focus their advanced coursework in ways that meet their specific interests and career goals. All students complete a core set of requirements and can determine in consultation with faculty and their academic advisor which specific option to follow. The option will be documented on the final transcript.

Environmental Studies Standard Option
To provide depth within a particular discipline within the College of Agricultural Sciences and Natural (CASNR) resources, the standard option is to choose a minor from a disciplinary area within CASNR. Students will select one course from the Policy area and one course from the Law area, with at least 3 credits at the 300 or 400 level.

Natural Resources Option
This option provides disciplinary knowledge and proficiency in the collection, synthesis, and interpretation of information/data in the disciplines represented in the School of Natural Resources courses (NRES, WATS, SOIL, RNGE). Three of the courses need to be at the 300 level or above. Students will select one course from the Policy area and one course from the Law area, with at least 3 credits at the 300 or 400 level.

Collaborative Programs
Choose from one of two collaborative programs – Public Health and Pre-Law. These course sequences are designed for students interested in pursuing post-undergraduate degrees. Select in consultation with an academic advisor.

Accelerated Program
Students may complete the Community and Regional Planning Accelerated Program. The course sequence is designed for students interested in pursuing a post-undergraduate degree. Select in consultation with an academic advisor.

College Requirements
College Admission
Requirements for admission into the College of Agricultural Sciences and Natural Resources (CASNR) are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social sciences, and 2 units of world language. Students must also meet performance requirements: a 3.0 cumulative high school grade point average OR an ACT composite of 20 or higher, writing portion not required OR a score of 1040 or higher on the SAT Critical Reading and Math sections OR rank in the top one-half of graduating class; transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on the most recent term of attendance.

Admission Deficiencies/Removal of Deficiencies
Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at the University of Nebraska–Lincoln, or within the first calendar year at Nebraska, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove world language deficiencies. College-level coursework taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by the completion of specified courses in the University or by correspondence.

The Office of Admissions, Alexander Building (south entrance), City Campus, provides information to new students on how deficiencies can be removed.

College Degree Requirements
Curriculum Requirements
The curriculum requirements of the College consist of three areas: ACE (Achievement-Centered Education), College of Agricultural Sciences and Natural Resources Core, and Degree Program requirements and electives. All three areas of the College Curriculum Requirements are incorporated within the description of the Major/Degree Program sections of the catalog. The individual major/degree program listings of classes ensures that a student will meet the minimum curriculum requirements of the College.

World Languages/Language Requirement
Two units of a world language are required. This requirement is usually met with two years of high school language.

Experiential Learning
All undergraduates in the College of Agricultural Sciences and Natural Resources must take an Experiential Learning (EL) designated course. This may include 0-credit courses designed to document co-curricular activities recognized as Experiential Learning.

Minimum Hours Required for Graduation
The College grants the bachelors degree in programs associated with agricultural sciences, natural resources, and related programs. Students working toward a degree must earn at least 120 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation. Some degree programs have a higher cumulative grade point
average required for graduation. Please check the degree program on its graduation cumulative grade point average.

**Grade Rules**

**Removal of C-, D, and F Grades**

Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in the computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D-, or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdraw), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.

For complete procedures and regulations, see the Office of the University Registrar website at http://www.unl.edu/regrec/course-repeats (http://www.unl.edu/regrec/course-repeats/).

**Pass/No Pass**

Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Faculty Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors or may choose to offer some courses for letter grades only.

**GPA Requirements**

A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation. Some degree programs have a higher cumulative grade point average required for graduation. Please check the degree program on its graduation cumulative grade point average.

**Transfer Credit Rules**

To be considered for admission a transfer student, Nebraska resident or nonresident, 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 have completed less than 12 credit hours of college study must submit either ACT or SAT scores.

Ordinarily, credits earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty (60) is the maximum number of hours the University will accept on transfer from a two-year college. Ninety (90) is the maximum number of hours the University will accept from a four-year college. Transfer credit in the degree program must be approved by the degree program advisor on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field, including the capstone course, must be completed at the University of Nebraska—Lincoln regardless of the number of hours transferred.

The College will accept no more than 10 semester hours of C-, D+, D, and D- grades from other schools. The C-, D+, D, and D- grades can only be applied to free electives. This policy does not apply to the transfer of grades from UNO or UNK to the University of Nebraska—Lincoln.

**Joint Academic Transfer Programs**

The College of Agricultural Sciences and Natural Resources has agreements with many institutions to support joint academic programs. The transfer programs include dual degree programs and cooperative degree programs. Dual degree programs offer students the opportunity to receive a degree from a participating institution and also to complete the requirements for a bachelor of science degree in CASNR. Cooperative programs result in a single degree from either the University of Nebraska–Lincoln or the cooperating institution.

**Dual Degree Programs**

**A to B Programs**

The A to B Program, a joint academic program offered by the CASNR and participating community colleges, allows students to complete the first two years of a degree program at the participating community college and continue their education and study in a degree program leading toward a bachelor of science degree.

The A to B Program provides a basic knowledge plus specialized coursework. Students transfer into CASNR with junior standing.

Depending on the community college, students enrolled in the A to B Program may complete the requirements for an associate of science at the community college, transfer to the University of Nebraska–Lincoln, and work toward a bachelor of science degree.

Participating community colleges include:

- Central Community College
- Metropolitan Community College
- Mid-Plains Community College
- Nebraska College of Technical Agriculture
- Nebraska Indian Community College
- Northeast Community College
- Southeast Community College
- Western Nebraska Community College

**3+2 Programs**

Two specialized degree programs in animal science and veterinary science are offered jointly with an accredited college or school of veterinary medicine. These two programs permit CASNR animal science or veterinary science students to receive a bachelor of science degree from the University of Nebraska—Lincoln with a degree in animal science or veterinary science after successfully completing two years of the professional curriculum in veterinary medicine at an accredited veterinary school. Students who successfully complete the 3+2 Program, must provide transcripts and complete the Application for Degree form via MyRED. Students without MyRED access may apply for graduation in person at Husker Hub in the Canfield Administration Building, or by mail. Students should discuss these degree programs with their academic advisor.

**Cooperative Degree Programs**

Academic credit from the University and a cooperating institution are applied towards a four-year degree from either the University of Nebraska–Lincoln (University degree-granting program) or the cooperating institution (non-University degree-granting program). All have approved programs of study.

**UNL Degree-Granting Programs**

A University of Nebraska–Lincoln degree-granting program is designed to provide students the opportunity to complete a two-year program of
study at one of the four-year institutions listed below, transfer to CASNR, and complete the requirements for a bachelor of science degree.

**Chadron State College.** Chadron State College offers a 2+2 program leading to a grassland ecology and management degree program and a transfer program leading to a bachelor of science in agricultural education in the teaching option.

**Wayne State College.** Wayne State College offers a 3+1 program leading to a bachelor of science in plant biology in the ecology and management option and a 3+1 program leading to a bachelor of science in Applied Science.

**University of Nebraska at Kearney.** Transfer programs are available for students pursing degree programs leading to a bachelor of science degree.

**University of Nebraska at Omaha.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.

**Non University of Nebraska–Lincoln Degree-Granting Programs**

CASNR cooperates with other institutions to provide coursework that is applied towards a degree at the cooperating institution. Pre-professional programs offered by CASNR allow students to complete the first two or three years of a degree program at the University prior to transferring and completing a degree at the cooperating institution.

**Chadron State College–Range Science.** The 3+1 Program in range science allows Chadron State College students to pursue a range science degree through Chadron State College. Students complete three years of coursework at Chadron State College and one year of specialized range science coursework (32 credit hours) at CASNR.

**Dordt College (Iowa)–Agricultural Education: Teaching Option.** This program allows students to pursue an Agricultural Education Teaching Option degree leading toward a bachelor of science in agricultural education. Students at Dordt College will complete 90 credit hours in the Agricultural Education: Teaching Option Transfer Program.

**Residency**

Students must complete at least 30 of the total hours for their degree using University of Nebraska–Lincoln credits. At least 18 of the 30 credit hours must be in courses offered through CASNR1 (>299) including the appropriate ACE 10 degree requirement or an approved ACE 10 substitution offered through another Nebraska college and excluding independent study regardless of the number of hours transferred. Credit earned during education abroad may be used toward the residency requirement if students register through the University of Nebraska–Lincoln and participate in prior-approved education abroad programs. The University of Nebraska–Lincoln open enrollment and summer independent study courses count toward residence.

1 Includes courses taught by CASNR faculty through interdisciplinary prefixes (e.g., LIFE, MBIO, ENVIR, SCIL, EAE, EAP, HRTM, ENSC) and CASNR crosslisted courses taught by non-CASNR faculty.

**Online and Distance Education**

There are many opportunities to earn college credit online through the University of Nebraska–Lincoln. Some of these credits may be applicable not only as elective credits but also toward the fulfillment of the College's education requirements. Credits earned online may count toward residency. However, certain offerings may not be counted toward scholarship requirements or academic recognition criteria.

**For further information, contact:**

Office of Online and Distance Education
University of Nebraska–Lincoln
305 Brace Labs
Lincoln, NE 68588-0109
402-472-4681
http://online.unl.edu/

**Independent Study Rules**

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, advisor, departmental office, and the Dean’s Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall or online at the CASNR website.

Independent study projects include research, literature review or extension of coursework under the supervision and evaluation of a departmental faculty member.

Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.

**Other College Degree Requirements**

**Capstone Course Requirement**

A capstone course is required for each CASNR degree program. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance.

**ACE Requirements**

All students must fulfill the Achievement Centered Education (ACE) requirements. Information about the ACE program may be viewed at ace.unl.edu (https://ace.unl.edu/).

The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in the college. Students should work with an advisor to satisfy ACE outcomes 1, 2, 3, 4, 6, and 10 with the college requirements.

**Catalog Rule**

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted to the University of Nebraska–Lincoln or when they were first admitted to a Joint Academic Transfer Program. Students transferring from a community college, but without admission to a Joint Academic Transfer Program, may be eligible to fulfill the requirements as stated in the catalog for an academic year in which they were enrolled at the community college prior to attending the University of Nebraska–Lincoln. This decision should be made in consultation with academic advisors, provided the student a) was enrolled in a community college during the catalog year they are utilizing, b) maintained continuous enrollment at the previous institution for 1 academic year or more, and c) continued enrollment at the University of Nebraska–Lincoln within 1 calendar year from their last term at the previous institution. 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 the University of Nebraska–Lincoln in the College of Agricultural
Sciences and Natural Resources. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Learning Outcomes
Graduates of environmental and sustainability 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. 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 humans influence them.
4. Demonstrate the ability to critically assess environmental and sustainability issues from the local to global scale considering a range of perspectives.
5. Identify, explain, and evaluate problems/questions/issues using relevant data, resources and reasoning to form carefully considered conclusions.
6. 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.
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

College Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIL 101</td>
<td>Science and Decision-Making for a Complex World</td>
<td>3</td>
</tr>
</tbody>
</table>

Communications

Select one Written Communication (ACE 1) course of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 150</td>
<td>Writing and Inquiry</td>
<td></td>
</tr>
<tr>
<td>ENGL 151</td>
<td>Writing and Argument</td>
<td></td>
</tr>
<tr>
<td>ENGL 254</td>
<td>Writing and Communities</td>
<td></td>
</tr>
<tr>
<td>JGEN 120</td>
<td>Basic Business Communication</td>
<td></td>
</tr>
<tr>
<td>JGEN 200</td>
<td>Technical Communication I</td>
<td></td>
</tr>
</tbody>
</table>

Select one Oral Communication (ACE 2) course of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALEC 102</td>
<td>Interpersonal Skills for Leadership</td>
<td></td>
</tr>
<tr>
<td>COMM 209</td>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COMM 286</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
<tr>
<td>NRES 301</td>
<td>Environmental Communication Skills</td>
<td></td>
</tr>
</tbody>
</table>

Select one Communication and Interpersonal Skills elective of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any ACE 1 course (UNL approved list)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Economics (ACE 6)

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 141</td>
<td>Introduction to the Economics of Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200</td>
<td>Economic Essentials and Issues</td>
<td></td>
</tr>
<tr>
<td>ECON 211</td>
<td>Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 212</td>
<td>Principles of Microeconomics</td>
<td></td>
</tr>
</tbody>
</table>

Humanities & Social Science

Select one ACE 5 Humanities
Select one ACE 7 Arts

Credit Hours Subtotal: 21

Specific Credit Hours

Environmental Studies and Sustainability Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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 (ACE 8)</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 249 / NRES 249</td>
<td>Individual and Cultural Perspectives on the Environment (ACE 9)</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 319</td>
<td>Environmental Engagement and the Community</td>
<td>2</td>
</tr>
<tr>
<td>ENVR 334 / PSYC 334</td>
<td>Psychology of Environmental Sustainability</td>
<td>3</td>
</tr>
</tbody>
</table>

ENVR 489 Environmental Studies Senior Thesis I
or ENVR 489H Honors: Environmental Studies Senior Thesis I

ENVR 499 Environmental Studies Senior Thesis II
or ENVR 499H Honors: Environmental Studies Senior Thesis II

ENVR 495 Internship in Environmental Studies

Credit Hours Subtotal: 16

Earth and Environmental Systems

Ecology

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 207</td>
<td>Ecology and Evolution</td>
<td></td>
</tr>
<tr>
<td>NRES 220</td>
<td>Principles of Ecology &amp; NRES 222 and Ecology Laboratory (Recommended)</td>
<td></td>
</tr>
</tbody>
</table>

Soil

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL 153 / PLAS 153</td>
<td>Soil Resources</td>
<td>4</td>
</tr>
</tbody>
</table>

Climate

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>METR 100</td>
<td>Weather and Climate</td>
<td></td>
</tr>
<tr>
<td>METR 180</td>
<td>Climate Change, Energy, and the Environment</td>
<td></td>
</tr>
<tr>
<td>NRES 104</td>
<td>Climate in Crisis</td>
<td></td>
</tr>
<tr>
<td>NRES 208</td>
<td>Climate Literacy in Natural Resources</td>
<td></td>
</tr>
</tbody>
</table>

Earth Systems

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENSC 110</td>
<td>Energy in Perspective</td>
<td></td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Dynamic Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 106</td>
<td>Environmental Geology</td>
<td></td>
</tr>
</tbody>
</table>
Environmental & Sustainability Studies (CASNR)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 109</td>
<td>Oceanography</td>
</tr>
<tr>
<td>GEOL 120</td>
<td>Geology of National Parks and Monuments</td>
</tr>
<tr>
<td>GEOL 125</td>
<td>Frontiers in Antarctic Geosciences</td>
</tr>
<tr>
<td>GEOG 155</td>
<td>Elements of Physical Geography</td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Global Environmental Issues</td>
</tr>
<tr>
<td>NRES 108</td>
<td>Earth's Natural Resource Systems Laboratory</td>
</tr>
</tbody>
</table>

**Water**

Select one of the following:
- ENVR 189H University Honors Seminar
- WATS 281 / GEOG 281 / NRES 281 Introduction to Water Science

**Geospatial Science**

Select one of the following:
- GEOG 217 Principles of GIS
- NRES 218 Introduction to Geospatial Technologies
- CRPL 433 GIS in Environmental Design and Planning

**Human Behavior, Leadership and Change**

Select three courses. One course from each of the two following areas, with at least 6 hours at the 300 or 400 level.
- ANTH 130 Anthropology of the Great Plains
- ANTH 170 / GEOG 170 / GPSP 170 / NRES 170 / SOCI 170 Introduction to Great Plains Studies
- ANTH 473 Ecological Anthropology
- ANTH 476 Human Rights, Environment, and Development
- ENVR 189H University Honors Seminar
- FREN 387 / ENGL 387 / GLST 387 The Environment and the French-Speaking World
- 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

- BIOS 101 General Biology & BIOS 101L and General Biology Laboratory
- PLAS 131 Plant Science & PLAS 132 and Agronomic Plant Science Laboratory or PLAS 131 Plant Science and Horticultural Plant Science Laboratory & PLAS 133 or PLAS 131 Plant Science and Plant Sciences Laboratory & PLAS 134
- CHEM 105A Chemistry in Context I & CHEM 105L and Chemistry in Context I Laboratory
- CHEM 109A General Chemistry I & CHEM 109L and General Chemistry I Laboratory
- CHEM 113A Fundamental Chemistry I & CHEM 113L and Fundamental Chemistry I Laboratory
- PHIL 225 Environmental Ethics
- SOCI 346 Environmental Sociology

**Ancillary Courses**

- Mathematics
  - MATH 102 Trigonometry (or higher) 3-5
  - STAT 218 Introduction to Statistics (or equivalent (ACE 3)) 3

**Biological Sciences**

Select one sequence from the following:
- CHEM 105A Chemistry in Context I & CHEM 105L and Chemistry in Context I Laboratory
- CHEM 109A General Chemistry I & CHEM 109L and General Chemistry I Laboratory
- CHEM 113A Fundamental Chemistry I & CHEM 113L and Fundamental Chemistry I Laboratory
- PHYS 115 Descriptive Physics
- PHYS 141 Elementary General Physics I
- PHYS 151 Elements of Physics
- AGST 109 Physical Principles in Agriculture and Life Sciences

**Credit Hours Subtotal**: 23

**Ancillary Courses**

- Mathematics
  - MATH 102 Trigonometry (or higher) 3-5

**Statistics**

Select one of the following:
- STAT 218 Introduction to Statistics (or equivalent (ACE 3)) 3

**Biological Sciences**

Select one sequence from the following:
- CHEM 105A Chemistry in Context I & CHEM 105L and Chemistry in Context I Laboratory
- CHEM 109A General Chemistry I & CHEM 109L and General Chemistry I Laboratory
- CHEM 113A Fundamental Chemistry I & CHEM 113L and Fundamental Chemistry I Laboratory
- PHYS 115 Descriptive Physics
- PHYS 141 Elementary General Physics I
- PHYS 151 Elements of Physics
- AGST 109 Physical Principles in Agriculture and Life Sciences

**Ancillary Courses**

- Mathematics
  - MATH 102 Trigonometry (or higher) 3-5

**Statistics**

Select one of the following:
- STAT 218 Introduction to Statistics (or equivalent (ACE 3)) 3

**Biological Sciences**

Select one sequence from the following:
- CHEM 105A Chemistry in Context I & CHEM 105L and Chemistry in Context I Laboratory
- CHEM 109A General Chemistry I & CHEM 109L and General Chemistry I Laboratory
- CHEM 113A Fundamental Chemistry I & CHEM 113L and Fundamental Chemistry I Laboratory
- PHYS 115 Descriptive Physics
- PHYS 141 Elementary General Physics I
- PHYS 151 Elements of Physics
- AGST 109 Physical Principles in Agriculture and Life Sciences

**Ancillary Courses**

- Mathematics
  - MATH 102 Trigonometry (or higher) 3-5

**Statistics**

Select one of the following:
- STAT 218 Introduction to Statistics (or equivalent (ACE 3)) 3
Environmental and Sustainability Studies Options

Environmental Studies Standard Option

The standard option is to choose a minor from a disciplinary area within CASNR. Students will select one course from the Policy area and one course from the Law area, with at least 3 credits at the 300 or 400 level.

Policy and Law

Policy

Select one from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 345</td>
<td>Policy Issues in Agriculture and Natural Resources</td>
</tr>
<tr>
<td>CRPL 470</td>
<td>Environmental Planning and Policy</td>
</tr>
<tr>
<td>CRPL 472</td>
<td>Hazard Mitigation Planning</td>
</tr>
<tr>
<td>ENSC 230</td>
<td>Energy and the Environment: Economics and Policy</td>
</tr>
<tr>
<td>NRES 323</td>
<td>Natural Resources Policy</td>
</tr>
<tr>
<td>NRES 475 / AGST 475 / CIVE 475 / CRPL 475 / GEOL 475 / PLAS 475 / POLS 475 / SOIL 475 / WATS 475</td>
<td>Water Quality Strategy</td>
</tr>
<tr>
<td>POLS 235</td>
<td>Public Policy: Concepts and Processes</td>
</tr>
<tr>
<td>POLS 236</td>
<td>Public Policy Analysis: Methods and Models</td>
</tr>
<tr>
<td>POLS 332</td>
<td>Climate Change: Policy and Politics</td>
</tr>
</tbody>
</table>

Law

Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 357 / NREE 357</td>
<td>Natural Resource and Environmental Law</td>
</tr>
<tr>
<td>AECN 456 / NREE 456</td>
<td>Environmental Law</td>
</tr>
<tr>
<td>AECN 457 / NREE 457 / WATS 457</td>
<td>Water Law</td>
</tr>
</tbody>
</table>

Free electives 6-12

Choose a CASNR Minor or second major. Select in consultation with your academic advisor.

| Credit Hours Subtotal: 30 |

Total Credit Hours 30

Natural Resources Option

The Natural Resources option provides disciplinary knowledge and proficiency in the collection, synthesis, and interpretation of information/data in the disciplines represented in the School of Natural Resources courses (NRES, WATS, SOIL, RNGE). Three of the courses need to be at the 300 level or above. Students will select one course from the Policy area and one course from the Law area, with at least 3 credits at the 300 or 400 level.

Policy and Law

Policy

Select one from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 345</td>
<td>Policy Issues in Agriculture and Natural Resources</td>
</tr>
<tr>
<td>CRPL 470</td>
<td>Environmental Planning and Policy</td>
</tr>
<tr>
<td>CRPL 472</td>
<td>Hazard Mitigation Planning</td>
</tr>
<tr>
<td>ENSC 230</td>
<td>Energy and the Environment: Economics and Policy</td>
</tr>
<tr>
<td>NRES 323</td>
<td>Natural Resources Policy</td>
</tr>
<tr>
<td>NRES 475 / AGST 475 / CIVE 475 / CRPL 475 / GEOL 475 / PLAS 475 / POLS 475 / SOIL 475 / WATS 475</td>
<td>Water Quality Strategy</td>
</tr>
<tr>
<td>POLS 235</td>
<td>Public Policy: Concepts and Processes</td>
</tr>
<tr>
<td>POLS 236</td>
<td>Public Policy Analysis: Methods and Models</td>
</tr>
<tr>
<td>POLS 332</td>
<td>Climate Change: Policy and Politics</td>
</tr>
</tbody>
</table>

Law

Select one from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 357 / NREE 357</td>
<td>Natural Resource and Environmental Law</td>
</tr>
<tr>
<td>AECN 456 / NREE 456</td>
<td>Environmental Law</td>
</tr>
<tr>
<td>AECN 457 / NREE 457 / WATS 457</td>
<td>Water Law</td>
</tr>
</tbody>
</table>

Free electives 6-12

Natural Resources Courses: Six courses and a minimum of 18 hours of coursework in natural resources courses (NRES, WATS, SOIL, RNGE). Three of the courses need to be at the 300 level or above.

| Credit Hours Subtotal: 30 |

Total Credit Hours 30

Collaborative Programs

Choose from one of two collaborative programs – Public Health and Pre-Law. These course sequences are designed for students interested in pursuing post-undergraduate degrees. Select in consultation with an academic advisor.

Public Health – Collaborative Program with University of Nebraska Medical Center

| Credit Hours Subtotal: 30 |

Total Credit Hours 30

CPH 500 Foundations of Public Health
Environmental & Sustainability Studies (CASNR)

CPH 501 Human Health Behavior
CPH 502 Health Services Administration
CHP 503 Public Health, Environment and Safety
CHP 504 Epidemiology in Public Health
CHP 506 Biostatistics I (Will generally substitute for STAT 218 or equivalent)

**Free Electives**  12

**Total Credit Hours**  30

**Pre-Law (Year 4) - Nebraska College of Law**

An applicant will be accepted into the 3-3 Program at the College of Law if the applicant:

1. Has an LSAT score of at least 156;
2. Has a cumulative undergraduate GPA of 3.6 or higher as calculated by the Law School Admission Council;
3. Will have successfully completed at least 75% of the course credits required for his or her undergraduate degree, along with all other requirements of his or her undergraduate degree program, by the date of matriculation at the College of Law. Course credits may include no more than 6 credit hours of Pass/No Pass coursework;
4. Has submitted on time the materials required of all applicants to the College of Law, including a completed application, satisfactory letters of recommendation, a personal statement, and records of the required course credits;
5. Has not been on academic probation at any undergraduate institution;
6. Has provided the College of Law with a letter from the relevant Dean, or other administrator of equivalent authority, of the applicant’s undergraduate institution stating that the applicant has completed all institutional requirements for participation in the 3-3 Law College Program and that the institution will grant the applicant an undergraduate degree upon the applicant’s successful completion of the first year College of Law coursework.

If the above requirements are satisfied, the applicant will automatically be accepted into the 3-3 Law Program unless there is information concerning the applicant that reflects adversely on the applicant’s character and fitness, including criminal citations, pending criminal charges, or criminal convictions. In such cases, the application will be individually reviewed by the College of Law Admissions Committee.

**Year 1 College of Law**

Select 30 credits from the following list of courses:  30

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 501</td>
<td>Contracts I</td>
</tr>
<tr>
<td>or LAW 501C</td>
<td>Contracts I</td>
</tr>
<tr>
<td>LAW 503</td>
<td>Torts I</td>
</tr>
<tr>
<td>or LAW 503G</td>
<td>Torts I</td>
</tr>
<tr>
<td>LAW 505</td>
<td>Property I</td>
</tr>
<tr>
<td>or LAW 505G</td>
<td>Property I</td>
</tr>
<tr>
<td>LAW 508</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>or LAW 508G</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>LAW 513</td>
<td>Legal Analysis, Writing and Research (LAWR)</td>
</tr>
<tr>
<td>&amp; LAW 514</td>
<td>Legal Analysis, Writing and Research (LAWR)</td>
</tr>
<tr>
<td>LAW 516</td>
<td>Civil Procedure I</td>
</tr>
<tr>
<td>or LAW 516C</td>
<td>Civil Procedure I</td>
</tr>
<tr>
<td>LAW 518</td>
<td>International Perspectives in U.S. Legal System: Practicing Law in a Global Legal Environment</td>
</tr>
<tr>
<td>LAW 518G</td>
<td>International Perspectives in U.S. Legal System: Practicing Law in a Global Legal Environment</td>
</tr>
</tbody>
</table>

**Community and Regional Planning: Accelerated Program with University of Nebraska-Lincoln, College of Architecture**

Community and Regional Planning: Collaborative Program with University of Nebraska – Lincoln, College of Architecture (accelerated program)

Undergraduate Courses (6 Credit Hours): Choose from the following:  6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRPL 432</td>
<td>Advanced Spatial Analysis with GIS</td>
</tr>
<tr>
<td>CRPL 467</td>
<td>Active and Healthy Community Development</td>
</tr>
<tr>
<td>CRPL 471</td>
<td>Environmental Impact Assessment</td>
</tr>
<tr>
<td>CRPL 472</td>
<td>Hazard Mitigation Planning</td>
</tr>
<tr>
<td>CRPL 489</td>
<td>Urbanization of Rural Landscapes</td>
</tr>
<tr>
<td>Other CRPL 400-level courses recommended by advisor</td>
<td></td>
</tr>
</tbody>
</table>

Graduate Courses (12 Credit Hours):  12

No more than 12 credit hours may count toward the bachelor’s degree. Dual-listed courses (400/800) are acceptable, but not required.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRPL 800</td>
<td>Introduction to Planning</td>
</tr>
<tr>
<td>CRPL 830</td>
<td>Planning with GIS</td>
</tr>
<tr>
<td>or CRPL 833</td>
<td>GIS in Environmental Design and Planning</td>
</tr>
<tr>
<td>CRPL 895</td>
<td>Planning Internship</td>
</tr>
<tr>
<td>CRPL 870</td>
<td>Environmental Planning and Policy</td>
</tr>
<tr>
<td>Free Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal:  30

**Additional Major Requirements**

**Grade Rules**

C- and D Grades

Environmental and sustainability studies majors must earn a grade of C or above is required for all courses in the major, including those in the major Core; Human Behavior, Leadership, and Change requirements; and Option requirements. Ancillary courses are excluded from this requirement.

**Pass/No Pass**

No course taken Pass/No Pass will be counted toward the major (excluding ancillary courses) unless offered exclusively with a grade option of Pass/No Pass. This includes courses in the major Core; Human Behavior, Leadership, and Change requirements; and Option requirements.
### Requirements for Minor Offered by Department

#### Environmental Studies Minor

Minimum of 18 hours with 6 hours at 300 level or above are required.

<table>
<thead>
<tr>
<th>Required Environmental Studies Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 101 Environmental Studies Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 201 Science, Systems, Environment and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 249 Individual and Cultural Perspectives on the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 319 Environmental Engagement and the Community</td>
<td>2</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

<table>
<thead>
<tr>
<th>Earth and Environmental Systems</th>
<th>Select one course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 207 Ecology and Evolution</td>
<td>3-4</td>
</tr>
<tr>
<td>CRPL 433 GIS in Environmental Design and Planning</td>
<td></td>
</tr>
<tr>
<td>ENSC 110 Energy in Perspective</td>
<td></td>
</tr>
<tr>
<td>GEOG 155 Elements of Physical Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 181 Global Environmental Issues</td>
<td></td>
</tr>
<tr>
<td>GEOG 217 Principles of GIS</td>
<td></td>
</tr>
<tr>
<td>GEOL 101 Dynamic Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 106 Environmental Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 109 Oceanography</td>
<td></td>
</tr>
<tr>
<td>GEOL 120 Geology of National Parks and Monuments</td>
<td></td>
</tr>
<tr>
<td>GEOL 125 Frontiers in Antarctic Geosciences</td>
<td></td>
</tr>
<tr>
<td>METR 100 Weather and Climate</td>
<td></td>
</tr>
<tr>
<td>METR 180 Climate Change, Energy, and the Environment</td>
<td></td>
</tr>
<tr>
<td>NRES 104 Climate in Crisis</td>
<td></td>
</tr>
<tr>
<td>NRES 108 Earth's Natural Resource Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>NRES 208 Climate Literacy in Natural Resources</td>
<td></td>
</tr>
<tr>
<td>NRES 220 Principles of Ecology</td>
<td></td>
</tr>
<tr>
<td>&amp; NRES 222 and Ecology Laboratory (Recommended)</td>
<td></td>
</tr>
<tr>
<td>NRES 218 Introduction to Geospatial Technologies</td>
<td></td>
</tr>
<tr>
<td>POLS 332 Climate Change: Policy and Politics</td>
<td></td>
</tr>
<tr>
<td>SOIL 153 / AECN 109 / ENVR 109 / GEOG 109 / NRES 109</td>
<td>Soil Resources</td>
</tr>
<tr>
<td>WATS 281 / GEOG 281 / NRES 281</td>
<td>Introduction to Water Science</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

<table>
<thead>
<tr>
<th>Human Dimensions</th>
<th>Select one course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 256 Legal Aspects in Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>AECN 346 World Food Economics</td>
<td></td>
</tr>
</tbody>
</table>
ENSC 230  Energy and the Environment: Economics and Policy
ENVR 189H  University Honors Seminar
GEOG 140  Introductory Human Geography
GEOG 181  Global Environmental Issues
GEOG 272  Geography of World Regions
GEOG 334  Historical Geography of the Great Plains
GEOG 361  Urban Geography
GEOG 406  Spatial and Environmental Influences in Social Systems
GEOG 447  Political Geography
JOMC 222  Social Justice, Human Rights and the Media
JOMC 491  Special Topics (Climate Change Magazine Production is the course that is applicable)
MNGT 300  Management Essentials For Contemporary Organizations
NRES 111  Wildlife and Natural Resource Conservation
NRES 301  Environmental Communication Skills
NRES 409  Human Dimensions of Natural Resources
NRES 434 / ENVR 434  Environmental Education and Interpretation
NRES 475 / AGST 475 / CIVE 475 / CRPL 475 / GEOL 475 / PLAS 475 / POLS 475 / SOIL 475 / WATS 475  Water Quality Strategy
NSST 375  Writing and Briefing for the National Security Enterprise
NSST 376  Analysis for the National Security Establishment
PHIL 225  Environmental Ethics
POLS 104  Comparative Politics
POLS 150  Introduction to Biology, Psychology, and Politics
POLS 160 / GLST 160  International Relations
POLS 221  Politics in State and Local Governments
POLS 232  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 361  The United Nations and World 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
PSYC 334 / ENVR 334  Psychology of Environmental Sustainability
SOCI 101  Introduction to Sociology
SOCI 241 / AECN 276  Rural Sociology
SOCI 346  Environmental Sociology
Credit Hours Subtotal: 3

Economics and Policy
Select one of the following: 3
AECN 141  Introduction to the Economics of Agriculture
AECN 345  Policy Issues in Agriculture and Natural Resources
AECN 346  World Food Economics
AECN 357 / NREE 357  Natural Resource and Environmental Law
AECN 457 / NREE 457 / WATS 457  Water Law
CRPL 470  Environmental Planning and Policy
ECON 200  Economic Essentials and Issues
ECON 211  Principles of Macroeconomics
ECON 212  Principles of Microeconomics
NSST 375  Writing and Briefing for the National Security Enterprise
NSST 376  Analysis for the National Security Establishment
PHIL 225  Environmental Ethics
POLS 104  Comparative Politics
POLS 150  Introduction to Biology, Psychology, and Politics
POLS 160 / GLST 160  International Relations
POLS 221  Politics in State and Local Governments
POLS 232  Public Issues in America
POLS 250  Genetics, Brains, and Politics
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POLS 268  Threats to World Order
POLS 334 / COMM 334  Polls, Politics and Public Opinion
POLS 350  Issues in Biology, Psychology, and Politics
POLS 361  The United Nations and World 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
PSYC 334 / ENVR 334  Psychology of Environmental Sustainability
SOCI 101  Introduction to Sociology
SOCI 241 / AECN 276  Rural Sociology
SOCI 346  Environmental Sociology
Credit Hours Subtotal: 3

Total Credit Hours 18

Sustainability Studies Minor
The sustainability studies minor will prepare students to contribute solutions for current and future local, regional, and global environmental challenges. Stewardship and the efficient, sustainable use of environmental, financial, and human resources will be the foundational concepts for this minor. More specifically, the educational component of this minor will provide students with explicit opportunities to engage in the community and develop skill sets to employ a systems approach to managing the growth of our habitats, and at the same time achieve a balance of economic development with the conservation of the earth's natural system. This minor will be available to all University of Nebraska–Lincoln students upon approval of individual colleges.

Learning Outcomes: The University of Nebraska–Lincoln undergraduate minor, sustainability studies, introduces students to the concepts, principles, and issues that inform the paradigm of sustainability and the efficient and sustainable use of environmental, financial, and human resources. The curriculum integrates classroom learning and community-based learning and research in a program that prepares students for future endeavors.

Upon completion of the requirements for the Society and the Environment, students will be able to:

- Explain the relationship among social, economic, and environmental systems for the development of solutions for global environmental and natural resource issues.
- Employ concepts of sustainability to the campus and community by engaging in the challenges and solutions of applied sustainability.
• Utilize problem-solving skills to address real world opportunities to help create healthier ecosystems and communities.
• Demonstrate the ability to effectively communicate to a range of audiences through the preparation of written documents along with oral and visual presentations that are consistent with professional standards.

The 18-credit-hour minor includes 9 credit hours of core courses. Each student chooses an additional 9 credit hours of elective courses from one of three tracks. These elective hours should include at least one 300-level and one 400-level course. Students and advisors need to be aware that prerequisites may be required for some courses. These need to be addressed during the advising process.

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 107</td>
<td>Sustainability Basics and the Built Environment (ACE 8)</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 201</td>
<td>Science, Systems, Environment and Sustainability (ACE 8)</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>
</tbody>
</table>

Credit Hours Subtotal: 9

Elective Courses

Select one track of the following: 9

**Track 1: Built Environment**

Select 9 credits of the following:

- LARC 200 / GEOG 200 / PLAS 200: Landscape and Environmental Appreciation (ACE 7 & 9)
- CIVE 321 / BSEN 321: Principles of Environmental Engineering ¹
- CIVE 491: Special Topics in Civil Engineering
- ARCH 333: Building Environmental Technical Systems ¹
- CONE 450: Sustainable Construction
- NRES 409: Human Dimensions of Natural Resources

**Track 2: Community Development**

Select 9 credits of the following:

- AECN 376: Rural Community Economics ¹
- CRPL 400: Introduction to Planning (ACE 8)
- CRPL 433: GIS in Environmental Design and Planning
- CRPL 470: Environmental Planning and Policy
- CRPL 471: Environmental Impact Assessment
- CRPL 472: Hazard Mitigation Planning
- LARC 200 / GEOG 200 / PLAS 200: Landscape and Environmental Appreciation
- NRES 409: Human Dimensions of Natural Resources
- SOCI 346: Environmental Sociology

**Track 3: Food, Environment, and the Landscape**

Select 9 credits of the following:

- PLAS 435 / NRES 435: Agroecology (ACE 10)
- PLAS 326: Landscape Solutions ¹
- Any 400-level PLAS course

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¹ Prerequisites required and need to be addressed during the advising process.

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**Grade Rules**

**C- and D Grades**

A grade of C or above is required for all courses in the minor.

**Pass/No Pass**

No course taken Pass/No Pass will be counted toward the 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
- Grading Option: Graded with Option

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
- Grading Option: Graded with Option
- Offered: FALL

**Prerequisite for:** SCIL 300

**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. Letter Grade Only.

**Description:** Topics vary.

**Credit Hours:** 3

- Max credits per semester: 3
- Max credits per degree: 3
- Grading Option: Graded
- 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
- Grading Option: Graded
- ACE: ACE 8 Civic/Ethics/Stewardship

---

AECN 346: World Food Economics (ACE 9) ¹

**Credit Hours Subtotal:** 9

**Total Credit Hours:** 18

¹ Prerequisites required and need to be addressed during the advising process.
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
Grading Option: Graded with Option
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. 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
Grading Option: Graded with Option
Experiential Learning: Case/Project-Based Learning

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
Grading Option: Graded with Option
ACE: ACE 8 Civic/Ethics/Stewardship

ENVR 434 Environmental Education and Interpretation
Crosslisted with: NRES 434, NRES 834
Notes: Requires 20 hours of service.
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.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded with Option
Course and Laboratory Fee: $40
Experiential Learning: Community Engagement

ENVR 489 Environmental Studies Senior Thesis I
Prerequisites: ENVR major or minor; junior or senior standing
Notes: First course of a two-semester sequence of courses consisting of ENVR 489H and 499. Letter Grade only.
Description: Preparation for writing the required senior thesis.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded
Prerequisite for: ENVR 499
ACE: ACE 10 Integrated Product

ENVR 489H Honors: Environmental Studies Senior Thesis I
Prerequisites: University Honors Program; ENVR major or minor; junior or senior standing;
Notes: First course of a two-semester sequence of courses consisting of ENVR 489H and 499H. Letter Grade only.
Description: Preparation for writing the required senior thesis.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Grading Option: Graded
ACE: ACE 10 Integrated Product
Experiential Learning: Research

ENVR 495 Internship in Environmental Studies
Prerequisites: ENVR major or minor; junior or senior standing;
Description: Experience in off-campus setting that is directly relevant to environmental studies.
Credit Hours: 1-6
Min credits per semester: 1
Max credits per semester: 6
Max credits per degree: 6
Grading Option: Graded with Option

ENVR 496 Independent Study
Prerequisites: Permission.
Description: Independent study or research under the direction of a faculty member.
Credit Hours: 1-3
Min credits per semester: 1
Max credits per semester: 3
Max credits per degree: 6
Grading Option: Graded with Option

ENVR 499 Environmental Studies Senior Thesis II
Prerequisites: ENVR 489
Notes: Second course of a two-semester sequence of courses consisting of ENVR 489 and 499.
Description: Required thesis written under the supervision of the emphasis advisor or a faculty member designated by the advisor.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded with Option
ACE: ACE 10 Integrated Product

ENVR 499H Honors: Environmental Studies Senior Thesis II
Prerequisites: ENVR 489H
Notes: Second course of a two-semester sequence of courses consisting of ENVR 489H and 499H.
Description: Required thesis written under the supervision of the emphasis advisor or a faculty member designated by the advisor.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Grading Option: Graded with Option
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 & Sustainability Studies-Natural Resources

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

- Confidently navigate complex, ambiguous projects and environments
- Conduct and present research to large and small groups
- Integrate information and perspectives from multiple disciplines to solve problems
- Collaborate with a team to develop solutions
- Communicate clearly using different forms of writing to and for a variety of different audiences
- Comprehend and critically evaluate complex information
- Understand and use proper laboratory and technical skills and instruments
- Offer empathetic, sensitive, and patient interactions with others
- Understand and utilize a variety of research methodologies

Jobs of Recent Graduates

- Environmental Education Intern, Pottawatomie Conservation – Honey Creek, IA
- Assistant Scientist, Olsson – Lincoln, NE
- Scientist, State of Nebraska Department of Agriculture – Lincoln, NE
- Manager, Glacial Till Winery – Lincoln, NE
- 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 Resource Conservation Services - Lincoln NE
- Permaculture Intern, Big Island Farms - Honokaa HI

Graduate & Professional Schools

- Master’s Degree, Natural Resources, University of Nebraska-Lincoln – Lincoln, NE
- Master’s Degree, Agronomy-Plant Pathology, University of Nebraska-Lincoln – Lincoln, NE
- Master’s Degree, Environmental Science and Policy, Indiana University – Bloomington, IN
- Master’s Degree, Energy, Technology, & Policy, Humboldt State University – Arcata, CA
- Master’s Degree, Environmental Policy, University of Michigan – Ann Arbor, MI
- Master’s Degree, Geography, University of Nebraska-Lincoln – Lincoln, NE
- Master’s Degree, Public Health, University of Nebraska Medical Center – Omaha, NE
- Master’s Degree, Water Biogeochemistry, University of Nebraska-Lincoln – Lincoln, NE
- Juris Doctorate, University of Nebraska College of Law – 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 Resource Conservation Services - Lincoln NE
- Integrated Management Technical Assistant, Nebraska 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 Analyst, Lincoln Police Department – Lincoln, NE
- Project Manager Assistant Intern, LI-COR Biosciences - Lincoln NE
- Waste Section Intern, Lancaster County Health Department - Lincoln NE
- Integrated Water Management Planner Assistant, Nebraska Department of Natural Resources - Lincoln NE
- Intern, Olsson Associates - La Vista NE
- Project Manager Assistant Intern, LI-COR Biosciences - Lincoln NE
- Waste Section Intern, Lancaster County Health Department - Lincoln NE
- Integrated Water Management Planner Assistant, Nebraska Department of Natural Resources - Lincoln NE