ENVIRONMENTAL STUDIES (CASNR)

**Description**

*Website: 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 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.

The degree program consists of four required components:

1. Environmental studies core courses introduce students to the major (ENVR 101 Environmental Studies Orientation) and provide a foundation in the scientific and human dimensions of environmental challenges (ENVR 201 Science, Systems, Environment and Sustainability and ENVR 249 Individual and Cultural Perspectives on the Environment). Students will have the opportunity to work with individuals and organizations involved in environmental challenges within the community (ENVR 319 Environmental Engagement and the Community). The required internship course (ENVR 495 Internship in Environmental Studies) provides the opportunity to gain work experience related to academic and career objectives. The "capstone" senior thesis series (ENVR 499A Environmental Studies Senior Thesis I and ENVR 499B Environmental Studies Senior Thesis II) provides an opportunity to complete a scholarly creative or research product.

2. General collateral courses in Earth and Environmental Systems, Human Dimensions, and Economics and Policy: Earth and environmental systems courses provide the opportunity to explore Earth’s four major spheres (land, water, living things, air) and the influence humans have had on their variability over space and through time. Human dimensions courses allow an exploration of human factors driving environmental change: law, politics, ethics, human behavior, cultural diversity, decision-making, and communication. Economics and Policy courses provide an additional lens to view environmental challenges. In addition, students will use and apply relevant research methods, tools, and technologies to address environmental challenges in an ethical manner.

3. Ancillary requirements in natural sciences (biology, chemistry and physics), mathematics, and statistics.

4. Emphasis area courses. To provide depth within a particular discipline, completion of an emphasis area is required. Three options are available to the students—Natural Resources, Public Health, or completion of a CASNR minor. Students are also encouraged to complete an additional 6 credit hours of discipline specific course work at the 300 level or higher.

**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 studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 20 or higher OR combined SAT score of 950 or higher 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. For students entering the PGA Golf Management degree program, a certified golf handicap of 12 or better (e.g., USGA handicap card) or written ability (MS Word file) equivalent to a 12 or better handicap by a PGA professional or high school golf coach is required. For more information, please visit: http://pgm.unl.edu/requirements.

**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 UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by 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 insures that a student will meet the minimum curriculum requirements of the College.

**Foreign Languages/Language Requirement**

Two units of a foreign language are required. This requirement is usually met with two years of high school language.

**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.

**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.

**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.

**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 is the maximum number of hours UNL will accept on transfer from a two-year college. Ninety is the maximum number of hours UNL 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 UNL 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 UNL.

**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 requirements for a bachelor of science degree in CASNR. Cooperative programs result in a single degree from either UNL 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 course work. 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 UNL, 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
- 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 UNL 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 complete the "Application for Degree" form and provide transcripts to the Credentials Clerk, Office of the University Registrar, 107 Canfield Administration Building, UNL. Students should discuss these degree programs with their academic advisor.

**Cooperative Degree Programs**

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

**UNL Degree-Granting Programs**

A UNL 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.
- **University of Nebraska at Kearney.** Transfer programs are available for students pursuing degree programs leading to a bachelor of science degree.
- **University of Nebraska at Omaha.** The University of Nebraska at Omaha (UNO) cooperates with CASNR in providing four-semester pre-agricultural sciences, pre-natural resources, pre-food science and technology, pre-
For further information, contact:
Office of Online and Distance Education
University of Nebraska–Lincoln
305 Brace Labs
Lincoln, NE 68588-0109
402-472-4681

For more information, contact the CASNR Dean’s Office, 800-472-8800, ext. 2541.

Non UNL Degree-Granting Programs
The CASNR cooperates with other institutions to provide course work that is applied towards a degree at the cooperating institution. Preprofessional programs offered by CASNR allow students to complete the first two or three years of a degree program at UNL 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 course work at Chadron State College and one year of specialized range science course work (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 UNL 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 UNL 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 UNL and participate in prior-approved education abroad programs. UNL open enrollment and summer independent study courses count toward residency.

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 more information, contact:
Office of Online and Distance Education
University of Nebraska–Lincoln
305 Brace Labs
Lincoln, NE 68588-0109
402-472-4681

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 course work under supervision and evaluation of a departmental faculty member.

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 www.ace.unl.

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 UNL or when they were first admitted to a Joint Academic Transfer Program. 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 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
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. 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.
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. Effectively work in teams and groups from various backgrounds and perspectives to address environmental challenges.

7. 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.

8. 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.

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### Major Requirements

#### College Core Requirements

**College Integrative Course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</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:

- ENGL 150 Writing and Inquiry  
- ENGL 151 Writing and Argument  
- ENGL 254 Writing and Communities  
- JGEN 120 Basic Business Communication  
- JGEN 200 Technical Communication I

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

- ALEC 102 Interpersonal Skills for Leadership  
- COMM 109 Fundamentals of Human Communication  
- COMM 209 Public Speaking  
- COMM 286 Business and Professional Communication  
- NRES 301 Environmental Communication Skills

Select one Communication and Interpersonal Skills elective of the following:

- Any ACE 1 course  
- Any ACE 2 course  
- ALEC 202 Foundations of Leadership Theory and Practice  
- NRES 301 Environmental Communication Skills

#### Humanities & Social Science

Select one ACE 5 Humanities  
Select one ACE 7 Arts  
Credit Hours Subtotal: 18

### Specific Major Requirements

**Environmental Studies Core (BS Degree)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>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>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENVR 319</td>
<td>Environmental Engagement and the Community</td>
<td>2</td>
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<tr>
<td>ENVR 495</td>
<td>Internship in Environmental Studies</td>
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</tr>
<tr>
<td>ENVR 499A</td>
<td>Environmental Studies Senior Thesis I</td>
<td>1</td>
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<tr>
<td>ENVR 499B</td>
<td>Environmental Studies Senior Thesis II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Earth and Environmental Systems (BS Degree)**

**Ecology**

- NRES 220 / BIOS 220 & NRES 222 / BIOS 222 Principles of Ecology and Ecology Laboratory (Recommended)  
- NRES 208 Applied Climate Sciences

**Soil**

- SOIL 153 / AGRO 153 / HORT 153 Soil Resources  
- NRES 312 / GEOG 312 Introduction to Geospatial Information  
- NRES 412 / GEOG 412 Introduction to Geographic Information Systems  
- NRES 418 / GEOG 418 Introduction to Remote Sensing  
- CRPL 433 GIS in Environmental Design and Planning

**Climate**

Select one of the following: 3-4
- NRES 104 Climate in Crisis  
- METR 100 Weather and Climate  
- METR 180 Environment, Energy, and Climate Change  
- NRES 208 Applied Climate Sciences

**Water**

Select one of the following: 3
- ENVR 189H University Honors Seminar  
- SCIL 109 Water in Society  
- WATS 281 / GEOG 281 / NRES 281 Introduction to Water Science

**Earth Systems**

Select one of the following: 3-4
- NRES 108 Earth’s Natural Resource Systems Laboratory  
- ENSC 110 Energy in Perspective  
- GEOL 101 Dynamic Earth  
- GEOL 106 Environmental Geology  
- GEOL 109 Oceanography  
- GEOL 120 Geology of National Parks and Monuments  
- GEOL 125 Frontiers in Antarctic Geosciences  
- GEOG 155 Elements of Physical Geography  
- GEOG 181 Quality of the Environment

**Geospatial Science**

Select one of the following: 3-4
- GEOG 419 / AGRO 419 / GEOL 419 / NRES 420 Applications of Remote Sensing in Agriculture and Natural Resources  
- GEOL 418 / NRES 420 Introduction to Geospatial Information Sciences  
- NRES 412 / GEOG 412 Introduction to Geographic Information Systems  
- NRES 418 / GEOG 418 Introduction to Remote Sensing  
- CRPL 433 GIS in Environmental Design and Planning

**Human Dimensions Electives**
Select two courses from two different departments of the following:

- **AECN 256**  Legal Aspects in Agriculture
- **AECN 276 / SOCI 241**  Rural Sociology
- **AECN 346**  World Food Economics
- **AECN 357 / NREE 357**  Natural Resource and Environmental Law
- **AECN 376**  Rural Community Economics
- **AECN 456 / NREE 456**  Environmental Law
- **AECN 457 / NREE 457 / WATS 457**  Water Law
- **ALEC 125**  Land, Food and People
- **ALEC 202**  Foundations of Leadership Theory and Practice
- **ALEC 388 / AECN 388**  Ethics in Agriculture and Natural Resources
- **ALEC 393**  Digital Imaging and Storytelling in Agriculture and Natural Resources
- **ALEC 410 / NRES 413**  Environmental Leadership
- **ANTH 110**  Introduction to Anthropology
- **ANTH 130**  Anthropology of the Great Plains
- **ANTH 170 / GEOG 170 / GPSP 170 / NRES 170 / SOCI 170**  Introduction to Great Plains Studies
- **ANTH 212 / ETHN 212**  Introduction to Cultural Anthropology
- **ANTH 261 / POLS 261 / SOCI 261**  Conflict and Conflict Resolution
- **ANTH 351 / ETHN 351**  Indigenous Peoples of North America
- **ANTH 454**  Ethnographic Field School
- **ANTH 473**  Ecological Anthropology
- **ANTH 476**  Human Rights, Environment, and Development
- **BLAW 300**  Business, Government & Society
- **COMM 101**  Communication in the 21st Century
- **COMM 210**  Communicating in Small Groups
- **COMM 211 / ETHN 211**  Intercultural Communication
- **COMM 220**  Public Advocacy and Civic Engagement
- **COMM 271**  Organizing Social Change
- **COMM 283**  Interpersonal Communication
- **COMM 334 / POLS 334**  Polls, Politics and Public Opinion
- **COMM 465**  Communication and Social Identity
- **COMM 371**  Communication in Negotiation and Conflict Resolution
- **COMM 375**  Theories of Persuasion
- **CRPL 470**  Environmental Planning and Policy
- **CYAF 460**  Human Dimensions of Sustainability
- **ENSC 230**  Energy and the Environment: Economics and Policy
- **GEOG 140**  Introductory Human Geography
- **GEOG 181**  Quality of the Environment
- **GEOG 272**  Geography of World Regions
- **GEOG 283**  Space, the Environment and You
- **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
- **MNGT 300**  Management Essentials For Contemporary Organizations
- **NRES 111**  Natural Resource Conservation in Society
- **NRES 301**  Environmental Communication Skills
- **NRES 409 / GEOG 409**  Human Dimensions of Natural Resources
- **NRES 423**  Integrated Resources Management
- **NRES 434 / ENVR 434**  Environmental Education and Interpretation
- **NRES 475 / AGRO 475 / CIVE 475 / CRPL 475 / GEOL 475 / MSYM 475 / POLS 475 / SOCI 475 / SOIL 475 / WATS 475**  Water Quality Strategy
- **PHIL 225**  Environmental Ethics
- **POL 104**  Comparative Politics
- **POL 130**  News Literacy, The Public, and Politics
- **POL 150**  Introduction to Biology, Psychology, and Politics
- **POL 160 / GLST 160**  International Relations
- **POL 221**  Politics in State and Local Governments
- **POL 232**  Public Issues in America
- **POL 250**  Genetics, Brains, and Politics
- **POL 260**  Problems in International Relations
- **POL 268**  Threats to World Order
- **POL 334 / COMM 334**  Polls, Politics and Public Opinion
- **POL 350**  Issues in Biology, Psychology, and Politics
- **POL 362**  Globalization, Human Rights and Diversity
- **POL 459**  International Political Economy
- **POL 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 241**  Rural Sociology
- **SOCI 241 / AECN 276**  Rural Sociology
<table>
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<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>SOCI 346</td>
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<td>Environmental Sociology</td>
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<td>Select two courses of the following:</td>
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<tr>
<td>AECN 456 / NREE 456</td>
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<td>Environmental Law</td>
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<tr>
<td>AECN 457 / NREE 457 / WATS 457</td>
<td>3</td>
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<tr>
<td>Water Law</td>
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<tr>
<td>AGRO 435 / HORT 435 / NRES 435</td>
<td>3</td>
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<tr>
<td>Agroecology</td>
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<td>ALEC 410 / NRES 413</td>
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<td>Environmental Leadership</td>
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<td>ANTH 473</td>
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<td>Ecological Anthropology</td>
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<td>CRPL 300</td>
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<td>The Community and the Future</td>
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<td>CRPL 471</td>
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<td>Environmental Impact Assessment</td>
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<td>CYAF 460</td>
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<td>Human Dimensions of Sustainability</td>
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<td>ENGL 317</td>
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<td>Literature and the Environment</td>
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<td>NRES 409 / GEOG 409</td>
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<td>Environmental Education and Interpretation</td>
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<td>POLS 361</td>
<td>3</td>
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<tr>
<td>The United Nations and World Politics</td>
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<td>POLS 362</td>
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<td>Globalization, Human Rights and Diversity</td>
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<td>PSYC 334 / ENVR 334</td>
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<tr>
<td>Psychology of Environmental Sustainability</td>
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<td>Economics and Policy</td>
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<td>AECN 141</td>
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<td>Introduction to the Economics of Agriculture</td>
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<td>ECON 200</td>
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<td>Economic Essentials and Issues</td>
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<td>ECON 211</td>
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<td>Principles of Microeconomics</td>
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<td>Policy Issues in Agriculture</td>
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<td>AECN 346</td>
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<tr>
<td>World Food Economics</td>
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<td>AECN 457</td>
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<td>Water Law</td>
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<td>CRPL 470</td>
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<td>Environmental Planning and Policy</td>
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<td>NRES 323</td>
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<tr>
<td>Natural Resources Policy</td>
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Ancillary Courses

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<td>MATH 102</td>
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<tr>
<td>Trigonometry (or higher)</td>
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<tr>
<td>STAT 218</td>
<td>3</td>
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<tr>
<td>Introduction to Statistics (or equivalent)</td>
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Biological Sciences

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<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIOS 101</td>
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<tr>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOS 101L</td>
<td>3</td>
</tr>
<tr>
<td>and General Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>AGRO 131</td>
<td>3</td>
</tr>
<tr>
<td>Plant Science</td>
<td></td>
</tr>
<tr>
<td>&amp; AGRO 132</td>
<td>3</td>
</tr>
<tr>
<td>and Agronomic Plant Science Laboratory</td>
<td></td>
</tr>
<tr>
<td>LIFE 120 &amp; LIFE 120L</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Biology I</td>
<td></td>
</tr>
<tr>
<td>&amp; and Fundamentals of Biology I laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 105</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry in Context I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 106</td>
<td>3</td>
</tr>
<tr>
<td>and Chemistry in Context II</td>
<td></td>
</tr>
<tr>
<td>CHEM 109</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 110</td>
<td>3</td>
</tr>
<tr>
<td>and General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 113 &amp; CHEM 114</td>
<td>3</td>
</tr>
<tr>
<td>Fundamental Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; Fundamental Chemistry II</td>
<td></td>
</tr>
</tbody>
</table>

Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 115</td>
<td>3</td>
</tr>
<tr>
<td>Descriptive Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 141</td>
<td>3</td>
</tr>
<tr>
<td>Elementary General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 151</td>
<td>3</td>
</tr>
<tr>
<td>Elements of Physics</td>
<td></td>
</tr>
<tr>
<td>MSYM 109</td>
<td>3</td>
</tr>
<tr>
<td>Physical Principles in Agriculture and Life Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Program Emphasis Areas

Option 1. Any CASNR Minor or second major, selected in consultation with academic advisor – 18 cr

Students are strongly encouraged to add 6 additional credits at the 300 level or higher of discipline-specific courses, especially if they are considering graduate work.

Option 2. Natural Resources – 19-25 cr

The Natural Resources emphasis area has been designed to allow a student to tailor their course work to meet their learning and career objectives. By the end of their sophomore year, the student will work with the environmental studies academic advising team to develop an individual study plan for approval. Their plan of study must include at least 7 courses and a minimum of 19 hours of course work in natural resources courses (NRES, WATS, SOIL, RNGE). Three of the courses need to be at the 300 level or above. A rationale for the courses they have chosen as they relate to learning or career objectives will be submitted with their study plan. The plan can be changed at any time, but must receive appropriate approval.

Option 3. Public Health – 18 cr

The Public Health emphasis is a collaborative program between the bachelor of science in environmental studies (BSES) at the University of Nebraska–Lincoln (UNL) and the master of public health (MPH) with a concentration in environmental and occupational health (EOH) at the University of Nebraska Medical Center (UNMC) (http://www.unmc.edu/publichealth/programs/mphdualdegree/bses-mph.html). The program provides students in the environmental studies program at UNL an option to complete the undergraduate degree in environmental studies and the MPH in EOH in about five years. The collaborative program is
designed for dedicated undergraduate students who are motivated and willing to take on the challenges and opportunities related to professional education. The collaborative BSES and MPH in EOH involves intensive study, a senior thesis, service learning, and capstone courses in EOH.

The collaborative program is a 147-155 credit hour undergraduate/professional option allowing eligible students to work toward the EOH concentration in the MPH program requirements while completing their undergraduate degree. Students interested in this option will work closely with their advisors to develop an integrated plan of study. The plan will cover the entire undergraduate and professional program and will be reviewed each semester with the student's advisors. A maximum of 18 credits from the MPH program (of the required 45 graduate credits for the MPH degree) will be counted toward the undergraduate degree. The student will receive a BS in environmental studies with an emphasis in public health and an MPH with a concentration in environmental and occupational health. Students with sophomore standing and at least 45 hours of completed course work in their undergraduate degree program may apply for admission to the collaborative BSES and MPH in EOH. See the environmental studies program coordinator or the UNMC graduate studies bulletin for pre-requisite and admission process details.

The Public Health courses from the UNMC Master of Public Health program are:

- CPH 500 Foundations of Public Health
- 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

**Option 4. Pre-Law (Year 4) - Nebraska College of Law – 33 cr**

Students interested in this option must adhere to the following process and set of requirements:

1. An LSAT score of at least 156.
2. A cumulative GPA of 3.6 or higher (as calculated by the Law School Admission Council).
3. Successful completion of 75% of undergraduate course requirements including no more than 6 credit hours of P/N.
4. Satisfaction of all standard law school application requirements with timely submissions.
5. No information reflecting adversely on the applicant's character including academic probation.
6. Provision of letter from the Dean or equivalent authority outlining suitable eligibility for application.

Students who cannot satisfy all six of the criteria for automatic admission can still gain admission to the College of Law component of the 3+3 Program; however, they must gain admission via a law college admissions committee review. If unsuccessful in this effort, a student is welcome to reapply whereby prior applications will not factor into the College of Law’s admission decision. However, the intended program of study will have been disrupted and a secondary plan for year four of the undergraduate study must be employed.

**NOTE:** Students completing Option 4 will have 5-10 hours of elective course work to reach 120 hours for undergraduate graduation.

**Year 1 College of Law**

Select 33 credits from the following list of courses:

| Credit Hours Subtotal: | 33 |

**Additional Major Requirements**

**Grade Rules**

**C- and D Grades**

Environmental studies majors must earn a C or P in all major core courses with the exception of ancillary courses.

**Pass/No Pass**

No environmental studies (ENVR) core courses, unless offered Pass/No Pass, or discipline-specific emphasis area courses may be taken Pass/No Pass.

**Requirements for Minor Offered by Department**

**Environmental Studies Minor**

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

**Required Environmental Studies Courses**

| Credit Hours Subtotal: | 9 |

**Earth and Environmental Systems**

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

| Credit Hours Subtotal: | 3 |
Human Dimensions
Select one course from the Human Dimensions Electives section of the major
Credit Hours Subtotal: 3

Economics and Policy
Select one course from the Economics and Policy section of the major
Credit Hours Subtotal: 3
Total Credit Hours 18

Environmental Education Minor
A minor in environmental education is designed to provide additional qualifications for students interested in pursuing a career in the field of environmental and natural resources education. Career options for students pursuing an environmental education minor include working in formal and non-formal educational settings; employment in the public or private sector; and serving as educational specialists, extension educators, and program leaders. Courses selected for the minor’s curriculum were chosen for their holistic perspective and interdisciplinary approach to environmental and natural resources studies. A number of the courses focus regionally on the environment of the Great Plains.

The 18-hour minor includes lower and upper division courses.

Foundations of Environmental Education
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 301</td>
<td>Environmental Communication Skills</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NRES 434</td>
<td>Environmental Education and Interpretation</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Systems Approach to Earth and Ecological Processes
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 201</td>
<td>Science, Systems, Environment and Sustainability</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NRES 220</td>
<td>Principles of Ecology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BIOS 220</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

Learning Characteristics and Outdoor Leadership Experiences
Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ODED 100A</td>
<td>Canoeing</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ODED 100N</td>
<td>Challenge Course: Instructor</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ODED 107B</td>
<td>Back-country Camping</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ODED 109B</td>
<td>Wilderness First Aid</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ODED 110B</td>
<td>Wilderness: First Responder</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EDPS 250</td>
<td>Fundamentals of Child Development for Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or EDPS 251</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

Implementation of Outdoor Educational Experiences
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIL 300</td>
<td>Experiential Learning in Food, Energy and Water Systems I</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ENVR 495</td>
<td>Internship in Environmental Studies</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ENVR 496</td>
<td>Independent Study</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ENVR 499A &amp; ENVR 499B</td>
<td>Environmental Studies Senior Thesis I and Environmental Studies Senior Thesis II</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Society and the Environment Minor
The society and the environment 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 skills sets to employ a systems approach to 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.

Minor Description
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 prequisites may be required for some courses. These need to be addressed during advising process.

Core Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 107</td>
<td>Sustainability Basics and the Build Environment (ACE 8)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENVR 201</td>
<td>Science, Systems, Environment and Sustainability (ACE 8)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENVR 319</td>
<td>Environmental Engagement and the Community</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ENVR 495</td>
<td>Internship in Environmental Studies</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

Elective Courses
Select one track of the following:

Track 1: Built Environment

Select 9 credits of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LARC 200</td>
<td>Landscape and Environmental Appreciation (ACE 7 &amp; 9)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HORT 200</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GEOG 200</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CIVE 326</td>
<td>Introduction to Environmental Engineering</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BS EN 326</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 333</td>
<td>Building Environmental Technical Systems</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CONE 450</td>
<td>Sustainable Construction</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CYAF 460</td>
<td>Human Dimensions of Sustainability (ACE 8)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>NRES 409</td>
<td>Human Dimensions of Natural Resources</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GEOG 409</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

Track 2: Community Development

Select 9 credits of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 376</td>
<td>Rural Community Economics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CRPL 400</td>
<td>Introduction to Planning (ACE 8)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CRPL 433</td>
<td>GIS in Environmental Design and Planning</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CRPL 470</td>
<td>Environmental Planning and Policy</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CRPL 471</td>
<td>Environmental Impact Assessment</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CRPL 472</td>
<td>Hazard Mitigation Planning</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

Track 3: Human Dimensions

Select 9 credits of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Total Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 301</td>
<td>Environmental Communication Skills</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NRES 434</td>
<td>Environmental Education and Interpretation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENVR 201</td>
<td>Science, Systems, Environment and Sustainability</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NRES 220</td>
<td>Principles of Ecology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BIOS 220</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

Total Credit Hours 18
Track 3: Food, Environment, and the Landscape
Select 9 credits of the following:

- **ALEC 125**  Land, Food and People (ACE 8)
- **HORT 429A / AGRO 429A / ANTH 429A / NUTR 429A / NRES 429A**  Food Security: A Global Perspective
- **AGRO 435**  Agroecology (ACE 10)
- **HORT 326 / AGRO 326 / TLMT 326**  Landscape Solutions
- **HORT 467 / ARCH 467 / LARC 467**  Planting Design
- **HORT 470 / AGRO 470 / TLMT 470**  Critical Thinking in Landscape
- **HORT 4XX TBA**
- **AECN 346**  World Food Economics (ACE 9)

Credit Hours Subtotal: 9

Total Credit Hours: 18

---

### 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

**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 8 Civic/Ethics/Stewardship

### 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 or minor; 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 abroad, undergraduate research, learning communities, and service learning and community-based learning.

Environmental Studies - Program
Emphasis Area Option 1

13 HR TERM 1
Environmental Study Core
complete ENVR 101

1hr

ACE 1 Written
complete 1 from ENGL 150, ENGL 151, ENGL 254, JGEN 120, JGEN 200

ENGL 151 is preferred.

**Biological Science**

complete 2 from AGRO 131, AGRO 132, BIOS 101, BIOS 101L, LIFE 120, LIFE 120L

Completion of the Biological Science requirement becomes critical to your success in the major if not completed by the fourth term of enrollment.

**Mathematics**

complete 1 from MATH 102, MATH 103, MATH 104, MATH 106, MATH 107, MATH 208

Choose 2-5 hours. Completion of a MATH course becomes critical to your success in the major if not completed by the fourth term of enrollment.

**Natural Resources Core**

complete SCIL 101

SCIL 101 is critical to your success in the major if not completed in the second term of enrollment.

**19 HR TERM 2**

**ACE 2 Oral Comm**

complete 1 from ALEC 102, COMM 109, COMM 209, COMM 286, NRES 301

ALEC 102 is preferred.

**Mathematics**

complete 1 from MATH 102, MATH 103, MATH 104, MATH 106, MATH 107, MATH 208

Choose additional MATH course if 5 hour requirement is not complete.

**Earth Systems Course**

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

**ACE 5 Humanities**

3hr

complete 1 from ACE5

**ACE 6 Economics/Policy**

complete 1 from AECN 141, ECON 200, ECON 211, ECON 212, AECN 345, AECN 346, AECN 357, CRPL 470, NRES 323

4hr

**Soil Course**

complete SOIL 153

**14 HR TERM 3**

**ACE 8 Ethical Principles**

complete ENVR 201

3hr

ENVR 201 becomes critical to your success in the major if not completed by the third term of enrollment.

**Ecology Courses**

complete NRES 220, NRES 222

NRES 220 becomes critical to your success in the major if not completed by the fourth term of enrollment.

**ACE 4 General Chemistry**

complete CHEM 109

4hr

CHEM 109 becomes critical to your success in the major if not completed by the third term of enrollment. CHEM 105 may also be chosen.

**Minor Requirement**

recommend 1 or more courses

3hr

Chose a course towards an Emphasis/Minor.

**17 HR TERM 4**

**ACE 9 Global/Human Divers**
Environmental Studies (CASNR)

Complete ENVR 249

ACE 4 General Chemistry

Complete CHEM 110

Choose CHEM 106 if you took CHEM 105 in a previous semester.

Climate Course

Complete 1 from METR 100, METR 180, NRES 104, NRES 208

Agricultural Economics

Recommend 1 or more courses

Complete a course towards the Human Dimensions requirements.

Water Course

Complete 1 from ENVR 189H, SCIL 109, WATS 281

Milestones

1. You must declare a required minor or emphasis by this term.

14 HR TERM 5

ACE 6 Economics/Policy

Complete 1 from AECN 141, ECON 200, ECON 211, ECON 212, AECN 345, AECN 346, AECN 357, CRPL 470, NRES 323

Environmental Study Core

Complete ENVR 495

ACE 4 Physics

Complete 1 from MSYM109#, PHYS 115, PHYS 141, PHYS 151

Minor Requirement

Complete Any Course

ACE 7 Arts

Complete 1 from ACE7

14 HR TERM 6

Environmental Study Core

Complete ENVR 319

Electives

Complete Any Course

Geospatial Science

Complete 1 from CRPL 433, GEOG 419, NRES 312, NRES 412, NRES 418

ACE 3 Statistics

Complete STAT 218

Natural Resources

Recommend 1 or more courses

Complete a course towards the Human Dimensions requirements.

16 HR TERM 7

Environmental Study Core

Complete ENVR 499A
**Environmental Studies (CASNR)**

**Agricultural Economics**
recommend 1 or more courses

Complete a 400 level course towards the Human Dimensions requirements.

**Comm/Interpersonal Skills**
complete 1 from ALEC 202, ACE1, ACE2

NRES 260 is preferred.

**Minor Requirement**
complete Any Course at any Level

Chose three courses towards an Emphasis/Minor.

**14 HR TERM 8**

**Environmental Study Core**
complete ENVR 499B

**Minor Requirement**
complete Any Course

Chose two courses towards an Emphasis/Minor.

**Agronomy**
recommend 1 or more courses

Complete a 400 level course towards the Human Dimensions requirement.

**Electives**

**Graduation Requirements**
1. Performance Measure: 2.00 GPA required for graduation.
2. ***Total Credits Applying Toward 120 Total Hours***

**Environmental Studies - Natural Resources Emphasis Option 2**

Icon Legend: Critical

**13 HR TERM 1**

**Environmental Study Core**
complete ENVR 101

**ACE 1 Written**
complete 1 from ENGL 150, ENGL 151, ENGL 254, JGEN 120, JGEN 200

ENGL 151 is preferred to fulfill the ACE 1 requirement.

**Biological Science**
complete 2 from AGRO 131, AGRO 132, BIOS 101, BIOS 101L, LIFE 120, LIFE 120L

Completion of the Life Science requirement becomes critical to your success in the major if not completed by the fourth term of enrollment.

**Mathematics**
complete 1 from MATH 102, MATH 103, MATH 104, MATH 106, MATH 107, MATH 208

Complete 2-5 hours. Completion of a MATH course becomes critical to your success in the major if not completed by the second term of enrollment.

**Natural Resources Core**
complete SCIL 101

SCIL 101 becomes critical to your success in the major if not completed by the second term of enrollment.

**19 HR TERM 2**
ACE 2 Oral Comm
complete 1 from ALEC 102, COMM 109, COMM 209, COMM 286, NRES 301

ALEC 102 is preferred to fulfill the ACE 2 requirement.

Mathematics
complete 1 from MATH 102, MATH 103, MATH 104, MATH 106, MATH 107, MATH 208
Completion of a MATH course becomes critical to your success in the major if not completed by the second term of enrollment. Choose additional MATH course if 5 hour requirement is not complete.

Earth Systems Course
complete 1 from ENSC 110, GEOG 155, GEOG 181, GEOL 101, GEOL 106, GEOL 109, GEOL 120, GEOL 125, NRES 108

ACE 5 Humanities
complete 1 from ACE5

ACE 6 Economics/Policy
complete 1 from AECN 141, ECON 200, ECON 211, ECON 212, AECN 345, AECN 346, AECN 357, CRPL 470, NRES 323

Soil Course
complete SOIL 153

14 HR TERM 3
ACE 8 Ethical Principles
complete ENVR 201

ENVR 201 becomes critical to your success in the major if not completed by the third term of enrollment.

Ecology Courses
complete NRES 220, NRES 222

17 HR TERM 4
ACE 9 Global/Human Divers
complete ENVR 249

ACE 4 General Chemistry
complete CHEM 109
CHEM 109 becomes critical to your success in the major if not completed by the third term of enrollment.

Water Course
complete 1 from ENVR 189H, SCIL 109, WATS 281

Climate Course
complete 1 from METR 100, METR 180, NRES 104, NRES 208

Agricultural Economics
complete 1 from AECN 276, AECN 376, AECN 456

Complete a course towards the Human Dimensions requirements.

Electives
complete Any Course
Recommended to take a course towards an Emphasis/Minor.

Milestones
1. You must declare a required minor or emphasis by this term.
14 HR TERM 5
Comm/Interpersonal Skills
complete 1 from ALEC 202, ACE1, ACE2

NRES 260 is preferred.

Environmental Study Core
complete ENVR 495

ACE 4 Physics
complete 1 from MSYM109#, PHYS 115, PHYS 141, PHYS 151

ACE 7 Arts
complete 1 from ACE7

Electives
complete Any Course

Recommended to take a course towards an Emphasis/Minor.

13 HR TERM 7
Environmental Study Core
complete ENVR 499A

ACE 3 Statistics
complete STAT 218
3hr

STAT 218 becomes critical to your success in the major if not completed by the sixth term of enrollment.

Management
recommend 1 or more courses

3hr

Complete a course towards the Human Dimensions requirements.

17 HR TERM 6
Environmental Study Core
complete ENVR 319

Agricultural Economics
complete AECN 457
3hr

Complete a 400 level course towards the Human Dimensions requirements.

Electives
complete Any Course

6hr

Recommended to take three courses towards an Emphasis/Minor.

ACE 6 Economics/Policy
complete 1 from AECN 141, ECON 200, ECON 211, ECON 212, AECN 345, AECN 346, AECN 357, CRPL 470, NRES 323

14 HR TERM 8
Environmental Study Core
complete ENVR 499B

Geospatial Science
complete 1 from CRPL 433, GEOG 419, NRES 312, NRES 412, NRES 418

Recommended to take a course towards an Emphasis/Minor.
## Environmental Studies - Public Health Emphasis Area Option 3

### 16 HR TERM 1

**Environmental Study Core**
- complete ENVR 101

**Natural Resources Core**
- complete SCIL 101

**Mathematics**
- complete 1 from MATH 102, MATH 103, MATH 104, MATH 106, MATH 107, MATH 208

### 16 HR TERM 2

**ACE 6 Economics/Policy**
- complete 1 from AECN 141, ECON 200, ECON 211, ECON 212, AECN 345, AECN 346, AECN 357, CRPL 470, NRES 323

**ACE 2 Oral Comm**
- complete 1 from ALEC 102, COMM 109, COMM 209, COMM 286, NRES 301

**Electives**
- complete Any Course

**Management**
- recommend 1 or more courses

### 16 HR TERM 3

**ACE 8 Ethical Principles**
- complete ENVR 201

**ACE 4 General Chemistry**
- complete ENVR 201

**Natural Resources**
- complete NRES 434

**Electives**
- complete Any Course

**Graduation Requirements**
1. Performance Measure: 2.00 GPA required for graduation.
2. ***Total Credits Applying Toward 120 Total Hours***

Completion of the Biological Science requirement becomes critical to your success in the major if not completed by the fourth term of enrollment.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Environmental Studies (CASNR)</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Complete CHEM 109</td>
<td>4hr</td>
<td>TERM 4</td>
<td>CHEM 109 becomes critical to your success in the major if not completed by the third term of enrollment. CHEM 105 may also be chosen.</td>
</tr>
<tr>
<td><strong>Natural Resources</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Complete 1 from NRES 111, NRES 301, NRES 409, NRES 423, NRES 434, NRES 475</td>
<td>3hr</td>
<td>C</td>
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<tr>
<td><strong>ACE 5 Humanities</strong></td>
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<tr>
<td>Complete 1 from ACE5</td>
<td>3hr</td>
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<tr>
<td><strong>Political Science</strong></td>
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<tr>
<td>Recommend 1 or more courses</td>
<td>3hr</td>
<td>C</td>
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<tr>
<td>Complete a course towards the Human Dimensions requirements.</td>
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<tr>
<td><strong>16 HR TERM 4</strong></td>
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<tr>
<td><strong>ACE 9 Global/Human Divers</strong></td>
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<tr>
<td>Complete ENVR 249</td>
<td>4hr</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>ACE 4 General Chemistry</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Complete CHEM 110</td>
<td>4hr</td>
<td>C</td>
<td>Choose CHEM 106 if you took CHEM 105 in a previous semester.</td>
</tr>
<tr>
<td><strong>ACE 7 Arts</strong></td>
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<tr>
<td>Complete 1 from ACE7</td>
<td>3hr</td>
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</tr>
<tr>
<td><strong>Earth Systems Course</strong></td>
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</tr>
<tr>
<td>Complete 1 from ENSC 110, GEOG 155, GEOG 181, GEOL 101, GEOL 106, GEOL 109, GEOL 120, GEOL 125, NRES 108</td>
<td>3hr</td>
<td></td>
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</tr>
<tr>
<td><strong>Water Course</strong></td>
<td>4hr</td>
<td>TERM 5</td>
<td>Complete SCIL 109</td>
</tr>
<tr>
<td><strong>10 HR TERM 5</strong></td>
<td>3hr</td>
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<tr>
<td><strong>ACE 6 Economics/Policy</strong></td>
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</tr>
<tr>
<td>Complete 1 from AECN 141, ECON 200, ECON 211, ECON 212, AECN 345, AECN 346, AECN 357, CRPL 470, NRES 323</td>
<td>3hr</td>
<td></td>
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<tr>
<td><strong>Ecology Courses</strong></td>
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<tr>
<td>Complete NRES 220, NRES 222</td>
<td>4hr</td>
<td>C</td>
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<tr>
<td>NRES 220 becomes critical to your success in the major if not completed by the fourth term of enrollment.</td>
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<tr>
<td><strong>Climate Course</strong></td>
<td>3hr</td>
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<tr>
<td>Complete 1 from METR 100, METR 180, NRES 104, NRES 208</td>
<td>3hr</td>
<td>C</td>
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<td><strong>14 HR TERM 6</strong></td>
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<tr>
<td><strong>Environmental Study Core</strong></td>
<td>3hr</td>
<td>C</td>
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<tr>
<td>Complete ENVR 319, ENVR 495</td>
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</tr>
<tr>
<td><strong>ACE 4 Physics</strong></td>
<td>5hr</td>
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<tr>
<td>Complete 1 from MSYM109#, PHYS 115, PHYS 141, PHYS 151</td>
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<tr>
<td><strong>Geospatial Science</strong></td>
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<tr>
<td>Complete 1 from CRPL 433, GEOG 419, NRES 312, NRES 412, NRES 418</td>
<td>3hr</td>
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<tr>
<td><strong>Psychology</strong></td>
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</tr>
<tr>
<td>Recommend 1 or more courses</td>
<td>3hr</td>
<td>C</td>
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</tr>
<tr>
<td>Complete a 300/400 level course towards the Human Dimensions requirements.</td>
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<tr>
<td><strong>10 HR TERM 7</strong></td>
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</tr>
</tbody>
</table>
Environmental Study Core

complete ENVR 499A

1hr
C

Sociology

recommend 1 or more courses

Complete a 300/400 level course towards the Human Dimensions requirements.

Electives

complete Any Course

6hr

8 HR TERM 8

Environmental Study Core

complete ENVR 499B

2hr
C

Electives

complete Any Course

6hr

Graduation Requirements

1. Performance Measure: 2.00 GPA required for graduation.
2. ***Total Credits Applying Toward 120 Total Hours***

Career Information

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

Jobs of Recent Graduates

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

Internships

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

Grad Schools

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