

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. 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 ensure 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 their 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 (withdrew), 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 pursuing 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.

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, ENVR, SCIL, EAEP, 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

College Integrative Course

SCIL 101	Science and Decision-Making for a Complex World	3
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Communications

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

ENGL 150	Writing and Inquiry	3
ENGL 151	Writing for Change	
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	3
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 (UNL approved list)		3
Any ACE 2 course (UNL approved list)		
ALEC 202	Foundations of Leadership Theory and Practice	

Economics (ACE 6)

Select one of the following:

AECN 141	Introduction to the Economics of Agriculture	3
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ECON 200	Economic Essentials and Issues	
ECON 211	Principles of Macroeconomics	
ECON 212	Principles of Microeconomics	
Credit Hours Subtotal:		15
ACE Requirement		
Select one course each from ACE outcomes 5 and 7		6
Credit Hours Subtotal:		6
Total Credit Hours		21

Specific Major Requirements

Environmental and Sustainability Studies Core

ENVR 101	Environmental & Sustainability Studies Orientation	1
ENVR 201	Science, Systems, Environment and Sustainability (ACE 8)	3
ENVR 249 / NRES 249	Individual and Cultural Perspectives on the Environment (ACE 9)	3
ENVR 319	Environmental Engagement and the Community	2
ENVR 334 / PSYC 334	Psychology of Environmental Sustainability	3
ENVR 489	Environmental Studies Senior Thesis I ¹	1
or ENVR 489H Honors: Environmental Studies Senior Thesis I		
ENVR 499	Environmental Studies Senior Thesis II ¹	2
or ENVR 499H Honors: Environmental Studies Senior Thesis II		
ENVR 495	Internship in Environmental & Sustainability Studies	1
Credit Hours Subtotal:		16

Earth and Environmental Systems

Ecology

Select one of the following:

BIOS 207	Ecology and Evolution	3-4
NRES 220 & NRES 222	Principles of Ecology and Ecology Laboratory (Recommended)	

Soil

SOIL 153 / PLAS 153	Soil Resources	4
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Climate

Select one of the following:

METR 100	Weather and Climate	3-4
METR 180	Climate Change, Energy, and the Environment	
NRES 104	Climate in Crisis	
NRES 208	Climate Literacy in Natural Resources	

Earth Systems

Select one of the following:

ENSC 110	Energy in Perspective	3-4
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	Global Environmental Issues	



NRES 108		
Water		
Select one of the following:		3
ENVR 189H	University Honors Seminar	
NRES 281 / GEOG 281	Introduction to Water Science	
SCIL 109 / AECN 109 / ENVR 109 / GEOG 109 / NRES 109	Water in Society	
Geospatial Science		
Select one of the following:		3-4
CRPL 433	GIS in Environmental Design and Planning	
GEOG 217	Principles of GIS	
NRES 218	Introduction to Geospatial Technologies	
Credit Hours Subtotal:		23
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.		9
Human Behavior		
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	
ENSC 230	Energy and the Environment: Economics and Policy	
ENVR 189H	University Honors Seminar	
FREN 387 / ENGL 387 / GLST 387	The Environment and the French-Speaking World	
NRES 315	Human Dimensions of Fish and Wildlife Management	
NRES 409	Human Dimensions of Natural Resources	
GEOG 181	Global Environmental Issues	
GEOG 334	Historical Geography of the Great Plains	
GEOG 406	Spatial and Environmental Influences in Social Systems	
PHIL 225	Environmental Ethics	
SOCI 346	Environmental Sociology	
Leadership and Change		
AECN 256	Legal Aspects in Agriculture	
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	

COMM 271	Organizing Social Change	
COMM 283	Interpersonal Communication	
COMM 371	Communication in Negotiation and Conflict Resolution	
ENVR 434	Environmental Education and Interpretation	
NRES 301	Environmental Communication Skills	
Credit Hours Subtotal:		9
Ancillary Courses ²		
Mathematics		
MATH 102	Trigonometry (or higher)	3-5
Statistics		
STAT 218	Introduction to Statistics (or equivalent (ACE 3))	3
Biological Sciences		
Select one sequence from the following:		4
BIOS 101 & 101L	General Biology and General Biology Laboratory	
PLAS 131 & PLAS 132	Plant Science 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	
LIFE 120 & 120L	Fundamentals of Biology I and Fundamentals of Biology I laboratory	
LIFE 121 & 121L	Fundamentals of Biology II and Fundamentals of Biology II Laboratory	
Chemistry		
Select one sequence from the following:		4
CHEM 105A & CHEM 105L	Chemistry in Context I and Chemistry in Context I Laboratory	
CHEM 109A & CHEM 109L	General Chemistry I and General Chemistry I Laboratory	
CHEM 113A & CHEM 113L	Fundamental Chemistry I and Fundamental Chemistry I Laboratory	
Physics		
Select one of the following:		3-5
AGST 109	Physical Principles in Agriculture and Life Sciences	
PHYS 115	Descriptive Physics	
PHYS 141	Physics for Life Sciences I	
PHYS 151	Elements of Physics	
College Core Requirements		18
Program Option Area		30
Credit Hours Subtotal:		69
Total Credit Hours		117

¹ ENVR 489 & ENVR 499 are the capstone courses for environmental and sustainability studies majors and both must be completed to fulfill the ACE 10 requirement.
 ENVR 489H & ENVR 499H are the capstone courses for Honor students and both must be completed to fulfill the ACE 10 requirement.

² For students in pre-professional tracks or considering graduate studies, MATH 104 or MATH 106, CHEM 109A/CHEM 109L & CHEM 110A/CHEM 110L, PHYS 141, and LIFE 120/LIFE 120L plus LIFE 121/LIFE 121L are the recommended courses.

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: 3

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

Law

Select one course from the following: 3

AECN 357 / NREE 357	Natural Resource and Environmental Law
AECN 456 / NREE 456	Environmental Law
AECN 457 / NREE 457	Water Law

Free electives 6-12

Choose a CASNR Minor or second major. Select in consultation with your academic advisor. 12-18

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, SOIL, RNGE). Other disciplines may be accepted with permission of the program director. 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: 3

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

Law

Select one from the following: 3

AECN 357 / NREE 357	Natural Resource and Environmental Law
AECN 456 / NREE 456	Environmental Law
AECN 457 / NREE 457	Water Law

Free electives 6-12

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

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 18

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 I (Will generally substitute for STAT 218 or equivalent)

Free Electives 12

Total Credit Hours 30



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

The 3-3 Law Program allows qualified undergraduate students to begin studies at the University of Nebraska College of Law after three years of undergraduate studies. Students admitted to the program will use the credit hours awarded in the first year at the College of Law to complete their undergraduate degree requirements. The 3-3 Law Program allows students to receive their Bachelor's degree and their Juris Doctor degree in six years rather than the traditional seven years.

For additional information, go to <https://law.unl.edu/3-3-program-information/>.

Year 1 College of Law

Complete the First Year Curriculum in the College of Law. First Year curriculum can be found on the College of Law website - https://law.unl.edu/first-year-curriculum (https://law.unl.edu/first-year-curriculum/)	30
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.

Required Environmental Studies Courses

ENVR 101	Environmental & Sustainability Studies Orientation	1
ENVR 201	Science, Systems, Environment and Sustainability	3
ENVR 249	Individual and Cultural Perspectives on the Environment	3
ENVR 319	Environmental Engagement and the Community	2
Credit Hours Subtotal:		9

Earth and Environmental Systems

Select one of the following:		3-4
BIOS 207	Ecology and Evolution	
CRPL 433	GIS in Environmental Design and Planning	
ENSC 110	Energy in Perspective	
GEOG 155	Elements of Physical Geography	
GEOG 181	Global Environmental Issues	

GEOG 217	Principles of GIS	
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	
METR 100	Weather and Climate	
METR 180	Climate Change, Energy, and the Environment	
NRES 104	Climate in Crisis	
NRES 108		
NRES 208	Climate Literacy in Natural Resources	
NRES 220 & NRES 222	Principles of Ecology and Ecology Laboratory (Recommended)	
NRES 218	Introduction to Geospatial Technologies	
POLS 332	Climate Change: Policy and Politics	
SCIL 109 / AECN 109 / ENVR 109 / GEOG 109 / NRES 109	Water in Society	
SOIL 153 / PLAS 153	Soil Resources	
NRES 281 / GEOG 281	Introduction to Water Science	
Credit Hours Subtotal:		3

Human Dimensions

Select one course from the following:		3
AECN 256	Legal Aspects in Agriculture	
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	Water Law	
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	

PLAS 435 / NRES 435	Agroecology
POLS 261 / SOCI 261	Conflict and Conflict Resolution
ANTH 351 / ETHN 351	Peoples and Cultures of East Asia
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 220	Communication, Advocacy, and Global Citizenship
COMM 271	Organizing Social Change
COMM 283	Interpersonal Communication
COMM 311 / ETHN 311	Intercultural and Intergroup Communication
COMM 371	Communication in Negotiation and Conflict Resolution
COMM 375	Theories of Persuasion
COMM 394	Independent Study in Communication Studies
COMM 465	Communication and Social Identity
CRPL 300	The Community and the Future
CRPL 470	Environmental Planning and Policy
CRPL 471	Environmental Impact Assessment
CRPL 472	Hazard Mitigation Planning
ENGL 317	Literature and the Environment
ENSC 110	Energy in Perspective
ENSC 220	Energy Systems and Sustainability
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 /	Water Quality Strategy

CIVE 475 / CRPL 475 / GEOL 475 / PLAS 475 / POLS 475 / SOIL 475	
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	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	Water Law
CRPL 470	Environmental Planning and Policy
ECON 200	Economic Essentials and Issues
ECON 211	Principles of Macroeconomics
ECON 212	Principles of Microeconomics
NRES 323	Natural Resources Policy
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

ARCH 107	Sustainability Basics and the Built Environment (ACE 8)	3
ENVR 201	Science, Systems, Environment and Sustainability (ACE 8)	3
ENVR 319	Environmental Engagement and the Community	2
ENVR 495	Internship in Environmental & Sustainability Studies	1

Credit Hours Subtotal: 9

Elective Courses

Select one track of the following: 9

Track 1: Built Environment

Select 9 credits of the following:

ARCH 333	Building Environmental Technical Systems ¹	
CIVE 321 / BSEN 321	Principles of Environmental Engineering ¹	
CIVE 491	Special Topics in Civil Engineering	
CONE 450	Sustainable Construction	

LARC 200 / GEOG 200 / PLAS 200	Landscape and Environmental Appreciation (ACE 7 & 9)	
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NRES 409	Human Dimensions of Natural Resources	
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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 326	Landscape Management Solutions ¹	
PLAS 435 / NRES 435	Agroecology (ACE 10)	
Any 400-level PLAS course		
AECN 346	World Food Economics (ACE 9) ¹	
PLAS 467	Planting Design	
PLAS 469	Ecological Landscape Design	
PLAS 470	Critical Thinking in Landscape Management	

Credit Hours Subtotal: 9

Total Credit Hours 18

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

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.

Bachelor of Science in Environmental and Sustainability Studies with the Master of Community and Regional Planning

In an accelerated program, a student may count up to 12 credit hours of approved graduate courses toward both the current undergraduate degree and the later graduate degree. Students must apply for graduate admission and be accepted prior to enrollment. For more information, visit <https://graduate.unl.edu/academics/programs/accelerated-masters/>.

The following courses are approved for this program:

CRPL 800	Introduction to Planning (replaces CRPL 400)	3
CRPL 830	Planning with GIS (replaces CRPL 433)	3

CRPL 863	Land Use and Transportation Planning (replaces CRPL 463)	3
CRPL 870	Environmental Planning and Policy (replaces CRPL 470)	3

Grading Requirements

Grading rules as defined by the undergraduate degree/major apply. Please consult your academic advisor and/or the department graduate chair for grading policy as it relates to credit applying toward a graduate degree.

ENVR 101 Environmental & Sustainability Studies Orientation

Description: Introduction to the Environmental Studies program and community. Weekly group discussions focus on majoring in and pursuing a career in Environmental Studies. Topics address the philosophy and structure of the program, exploring local environmental issues, and connecting academic work to career pursuits.

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

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

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 with Option

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

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 489 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. Credit toward the degree cannot be earned in both ENVR 489 and ENVR 489H.

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

Prerequisite for: ENVR 499H

ACE: ACE 10 Integrated Product

Experiential Learning: Research

ENVR 495 Internship in Environmental & Sustainability Studies

Prerequisites: Permission.

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: 4

Grading Option: Graded with Option

Experiential Learning: Internship/Co-op

ENVR 496 Independent Study

Prerequisites: Permission.

Description: Independent reading or research under 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. Credit toward the degree cannot be earned in both ENVR 499 and ENVR 499H.

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

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, United States Dept of Agriculture-AMRU – Lincoln, NE
- Crime Analyst, Lincoln Police Department – Lincoln, NE
- Integrated Management Technical Assistant, Nebraska Dept of Natural Resources – 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
- Integrated Water Management Planner Assistant, Nebraska Department 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