AGRICULTURAL & ENVIRONMENTAL SCIENCES COMMUNICATION

Description
This degree program prepares students for careers in communications, advocacy and public service roles in the agricultural, natural resources and environmental disciplines. Degree requirements provide students a broad education combining skills and knowledge in agricultural, environmental and natural resources sciences, the social sciences and mass communications. Graduates of this program are also qualified to pursue careers in public relations, and public service in government agencies, nonprofit and private organizations.

To complete the program, students take core courses in the Agricultural Leadership, Education, and Communication (ALEC) Department, and then select courses in the College of Agricultural Sciences and Natural Resources (CASNR) to provide a science-based foundation for their content knowledge. Students then select one of three areas of emphasis for further coursework.

The program's general education requirements provide students a well-rounded introduction to science, communications, humanities and the social sciences. The agricultural and environmental sciences communication core provides an introduction to the areas of competence required of a professional communicator.

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 SAT score of 950 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 the University of Nebraska—Lincoln, or within the first calendar year at Nebraska, whichever takes longer, excluding foreign languages. Students have up to 60 credit hours to remove foreign language deficiencies. College-level coursework taken to remove deficiencies may be used to meet degree requirements in CASNR.

Deficiencies in the required entrance subjects can be removed by 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. Some degree programs have a higher cumulative grade point average required for graduation. Please check the degree program on its graduation cumulative grade point average.

Grade Rules

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

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

A student can remove from his/her cumulative average a course grade of C; D+, D, D- or F if the student repeats the same course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (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.

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.
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 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
- 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 complete the Application for Degree form and provide transcripts to the Credentials Clerk, Office of the University Registrar, 107 Canfield Administration Building. Students should discuss these degree programs with their academic advisor.

Cooperative Degree Programs
Academic credit from the University and a cooperating institution is 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.

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-horticulture and pre-turfgrass and landscape management transfer programs.

A student enrolled in these programs may transfer all satisfactorily completed academic credits identified in the suggested program of study, and enter CASNR to study toward a degree program leading to a bachelor of science degree. The total program would require a minimum of four years or eight semesters (16 credit hours/semester or 120 credit hours).

Nebraska CASNR faculty teach horticulture and food science and technology courses at UNO to assist an urban population in better understanding the food processing, horticulture, and landscape horticulture industries.

For more information, contact the CASNR Dean's Office, 800-472-8800, ext. 2541.
Non University of Nebraska–Lincoln Degree-Granting Programs
CASNR cooperates with other institutions to provide coursework that is applied towards a degree at the cooperating institution. Pre-professional programs offered by CASNR allow students to complete the first two or three years of a degree program at the University prior to transferring and completing a degree at the cooperating institution.

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

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

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

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 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. 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 Nebraska 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 agricultural and environmental sciences communication will be able to:
1. Demonstrate competence in visual and written communication techniques.
2. Apply communication concepts, theories and principles of critical thinking to real world issues facing agriculture and the environment.
3. Understand diverse perspectives related to food, fuel, water, landscapes and people in Nebraska, nationally and globally.
4. Communicate agricultural and environmental science information in lay language to targeted audiences.

Major Requirements
Core Requirements

<table>
<thead>
<tr>
<th>College Integrative Courses</th>
<th>Credit Hours Subtotal:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIL 101 Science and Decision-Making for a Complex World</td>
<td>3</td>
</tr>
<tr>
<td>ALEC 480 Capstone Experience in Agricultural and Environmental Sciences Communication (ACE 10)</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

Communications

Written Communication (ACE 1)
Agricultural & Environmental Sciences Communication

Select one of the following: 3
- ENGL 150 Writing and Inquiry
- ENGL 151 Writing and Argument
- ENGL 254 Writing and Communities
- JOUR 202 Reporting I

**Communications & Interpersonal Skills Electives (ACE 2)**
Select one of the following: 3
- ALEC 102 Interpersonal Skills for Leadership (Recommended)
- COMM 101 Communication in the 21st Century
- COMM 209 Public Speaking
- COMM 286 Business and Professional Communication

Credit Hours Subtotal: 6

**Mathematics and Statistics (beyond college algebra) (ACE 3)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 218</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 2-5 hours of the following: 1
- MATH 102 Trigonometry
- MATH 103 College Algebra and Trigonometry
- MATH 104 Applied Calculus
- MATH 106 Calculus I
- MATH 203 Contemporary Mathematics

Credit Hours Subtotal: 5-8

**Natural Sciences (ACE 4)**
Select one of the following: 4
- AGRO 131 / HORT 131 Plant Science and Agronomic Plant Science Laboratory
- AGRO 132
- HORT 131 / AGRO 131 Plant Science and Horticultural Plant Science Laboratory
- HORT 133
- BIOS 101 General Biology
- BIOS 101L General Biology Laboratory
- LIFE 120 Fundamentals of Biology I
- LIFE 120L Fundamentals of Biology I Laboratory
- ENTO 115 / BIOS 115 Insect Biology and Insect Identification
- ENTO 116 / BIOS 116

Select one of the following: 4-5
- CHEM 105 Chemistry in Context I
- CHEM 109 General Chemistry I
- MSYM 109 Physical Principles in Agriculture and Life Sciences
- PHYS 141 Elementary General Physics I
- PHYS 151 Elements of Physics

Credit Hours Subtotal: 8-9

**Economics, Humanities and Social Sciences**
Select one of the following (ACE 6): 3
- ANTH 110 Introduction to Anthropology
- PSYC 181 Introduction to Psychology
- SOCI 101 Introduction to Sociology

Select one of the following (ACE 6): 3
- AECN 141 Introduction to the Economics of Agriculture
- ECON 200 Economic Essentials and Issues
- ECON 211 Principles of Macroeconomics
- ECON 212 Principles of Microeconomics

Select 3 hours of Humanities (ACE 5)
- Select 3 hours of Arts (ACE 7)
- Select 3 hours of Ethics (ACE 8)
- Select 3 hours of Global Awareness & Diversity (ACE 9)

Credit Hours Subtotal: 18-19

**Total Credit Hours**: 43-48

1 Proficiency at the college algebra level must be demonstrated either by a placement exam or through coursework. If MATH 103 is taken, only 2 credit hours can be counted toward this requirement. If MATH 106 is completed, the ACE 3 requirement is fulfilled. STAT 218 is still required.

### Specific Major Requirements

**Required ALEC Courses**
- ALEC 136 Fundamentals of Agricultural and Environmental Sciences Communication
- ALEC 200 Writing for Agriculture and Natural Resources
- ALEC 207 / ADPR 207 Communicating to Public Audiences
- ALEC 240 Digital Photography and Visual Communication for Agriculture and the Environment
- ALEC 241 Mobile Video Production of Agricultural and Environmental Issues
- ALEC 305 Presentation Strategies for Agricultural Audiences
- ALEC 350 Agriculture, the Environment & Science in the Media
- ALEC 388 / AECN 388 Ethics in Agriculture and Natural Resources
- ALEC 495B Internship in Agricultural and Environmental Sciences Communication

Select two of the following: 6
- ALEC 108 Food in Society
- ALEC 125 Land, Food and People
- ALEC 341 Podcasting to Increase Science Literacy
- ALEC 393 / NRES 393 Digital Imaging and Storytelling in Agriculture and Natural Resources
- ALEC 397 Special Topics
- ALEC 399 Independent Study in Communications
- ALEC 417 / ADPR 417 Issues Management and Crisis Communications in Agriculture
- ALEC 421 Agricultural & Environmental Sciences Communication Practicum
- ALEC 428 / NRES 428 Leadership in Public Organizations

Credit Hours Subtotal: 33

**Required Communication Courses**
- JOUR 201 Editing I
- ADPR 151 Introduction to Advertising and Public Relations
Select one of the following:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 101</td>
<td>Communication in the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>COMM 215</td>
<td>Visual Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 283</td>
<td>Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 300</td>
<td>Nonverbal Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 312</td>
<td>Argumentation</td>
<td></td>
</tr>
<tr>
<td>COMM 325</td>
<td>Interviewing</td>
<td></td>
</tr>
<tr>
<td>COMM 375</td>
<td>Theories of Persuasion</td>
<td></td>
</tr>
<tr>
<td>COMM 386</td>
<td>Organizational Communication</td>
<td></td>
</tr>
<tr>
<td>COMM 452</td>
<td>Media and Culture</td>
<td></td>
</tr>
<tr>
<td>COMM 470</td>
<td>Interpersonal Communication Theory</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

Total Credit Hours 42

**CASNR Agricultural Science Content Courses**

**Required CASNR Content Area Courses**

Complete 15 hours of coursework in any CASNR department. Select in consultation with academic advisor.

Credit Hours Subtotal: 15

Total Credit Hours 15

**Program Emphasis Areas**

Select one of the following three options for a total of 18 hours.

**Agricultural Sciences and Natural Resources**

Select any CASNR minor in consultation with an academic advisor.

Total Credit Hours 18

1 Select any CASNR minor program and complete as required. Choose from CASNR Undergraduate Catalog.

**Agricultural and Environmental Sciences Strategic Communications**

**Required Course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADPR 283</td>
<td>Strategy Development for Advertising and Public Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

**Group 1 – Issues Courses**

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 276 / SOCI 241</td>
<td>Rural Sociology</td>
<td>6</td>
</tr>
<tr>
<td>AECN 345</td>
<td>Policy Issues in Agriculture and Natural Resources</td>
<td></td>
</tr>
<tr>
<td>AECN 357 / NREE 357</td>
<td>Natural Resource and Environmental Law</td>
<td></td>
</tr>
<tr>
<td>AECN 367</td>
<td>Agricultural Development in Developing Countries</td>
<td></td>
</tr>
<tr>
<td>AECN 420</td>
<td>International Food and Agricultural Trade</td>
<td></td>
</tr>
<tr>
<td>AECN 445 / NREE 445</td>
<td>Agricultural and Natural Resource Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>AECN 456 / NREE 456</td>
<td>Environmental Law</td>
<td></td>
</tr>
<tr>
<td>AECN 457 / NREE 457 / WATS 457</td>
<td>Water Law</td>
<td></td>
</tr>
<tr>
<td>ENSC 230</td>
<td>Energy and the Environment: Economics and Policy</td>
<td></td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

Total Credit Hours 18

**Agricultural and Environmental Sciences Public Issues Communication**

**Group 1 – Option Content Courses**

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 107 / NRES 107</td>
<td>Invasive Plant Species: Impacts on Ecosystems</td>
<td>6</td>
</tr>
<tr>
<td>AGRO 153 / HORT 153 / SOIL 153</td>
<td>Soil Resources</td>
<td></td>
</tr>
<tr>
<td>AGRO 204</td>
<td>Resource-Efficient Crop Management</td>
<td></td>
</tr>
<tr>
<td>AGRO 240 / RNGE 240</td>
<td>Forage Crop and Pasture Management</td>
<td></td>
</tr>
<tr>
<td>ASCI 100</td>
<td>Fundamentals of Animal Biology and Industry</td>
<td></td>
</tr>
<tr>
<td>ASCI 150</td>
<td>Animal Production Skills</td>
<td></td>
</tr>
<tr>
<td>ASCI 210</td>
<td>Animal Products</td>
<td></td>
</tr>
<tr>
<td>ASCI 250</td>
<td>Animal Management</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>ASCI 252</td>
<td>Introduction to the Horse Industry and Management</td>
<td></td>
</tr>
<tr>
<td>ASCI 370</td>
<td>Animal Welfare</td>
<td></td>
</tr>
<tr>
<td>ENSC 110</td>
<td>Energy in Perspective</td>
<td></td>
</tr>
<tr>
<td>ENSC 220</td>
<td>Introduction to Energy Systems</td>
<td></td>
</tr>
<tr>
<td>ENTO 300</td>
<td>Toxins in the Environment</td>
<td></td>
</tr>
<tr>
<td>BIOS 300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVR 201</td>
<td>Science, Systems, Environment and Sustainability</td>
<td></td>
</tr>
<tr>
<td>ENVR 249</td>
<td>Individual and Cultural Perspectives on the Environment</td>
<td></td>
</tr>
<tr>
<td>ENVR 319</td>
<td>Environmental Engagement and the Community</td>
<td></td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Dynamic Earth</td>
<td></td>
</tr>
<tr>
<td>GEOL 106</td>
<td>Environmental Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 115</td>
<td>The Earth’s Energy Resources</td>
<td></td>
</tr>
<tr>
<td>HORT 270</td>
<td>Biological Invaders</td>
<td></td>
</tr>
<tr>
<td>AGRO 270</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 270</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLPT 270</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 108</td>
<td>Earth’s Natural Resource Systems Laboratory</td>
<td></td>
</tr>
<tr>
<td>NRES 408</td>
<td>Microclimate: The Biological Environment</td>
<td></td>
</tr>
<tr>
<td>AGRO 408</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 408</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HORT 408</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METR 408</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WATS 408</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METR 100</td>
<td>Weather and Climate</td>
<td></td>
</tr>
<tr>
<td>NRES 208</td>
<td>Applied Climate Sciences</td>
<td></td>
</tr>
<tr>
<td>NRES 211</td>
<td>Introduction to Conservation Biology</td>
<td></td>
</tr>
<tr>
<td>NRES 220</td>
<td>Principles of Ecology</td>
<td></td>
</tr>
<tr>
<td>NRES 222</td>
<td>Ecology Laboratory</td>
<td></td>
</tr>
<tr>
<td>WATS 281</td>
<td>Introduction to Water Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 281</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NRES 281</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WATS 354</td>
<td>Soil Conservation and Watershed Management</td>
<td></td>
</tr>
<tr>
<td>MSYM 354</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOIL 354</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WATS 361</td>
<td>Soils, Environment and Water Quality</td>
<td></td>
</tr>
<tr>
<td>AGRO 361</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOE 361</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOIL 361</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AECN 420</td>
<td>International Food and Agricultural Trade</td>
<td></td>
</tr>
<tr>
<td>AECN 445 / NREE 445</td>
<td>Analysis</td>
<td></td>
</tr>
<tr>
<td>AECN 456 / NREE 456</td>
<td>Environmental Law</td>
<td></td>
</tr>
<tr>
<td>AECN 457 / NREE 457 / WATS 457</td>
<td>Water Law</td>
<td></td>
</tr>
<tr>
<td>ENSC 230</td>
<td>Energy and the Environment: Economics and Policy</td>
<td></td>
</tr>
<tr>
<td>ENVR 249</td>
<td>Individual and Cultural Perspectives on the Environment</td>
<td></td>
</tr>
<tr>
<td>ENVR 319</td>
<td>Environmental Engagement and the Community</td>
<td></td>
</tr>
<tr>
<td>NRES 104</td>
<td>Climate in Crisis</td>
<td></td>
</tr>
<tr>
<td>NRES 323</td>
<td>Natural Resources Policy</td>
<td></td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Group 3 – Communication Courses**

Select two of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 256</td>
<td>Legal Aspects in Agriculture</td>
</tr>
<tr>
<td>AECN 276 / SOCI 241</td>
<td>Rural Sociology</td>
</tr>
<tr>
<td>AECN 345</td>
<td>Policy Issues in Agriculture and Natural Resources</td>
</tr>
<tr>
<td>AECN 357 / NREE 357</td>
<td>Natural Resource and Environmental Law</td>
</tr>
<tr>
<td>AECN 367</td>
<td>Agricultural Development in Developing Countries</td>
</tr>
<tr>
<td>AECN 420</td>
<td>International Food and Agricultural Trade</td>
</tr>
<tr>
<td>AECN 445 / NREE 445</td>
<td>Analysis</td>
</tr>
<tr>
<td>AECN 456 / NREE 456</td>
<td>Environmental Law</td>
</tr>
<tr>
<td>AECN 457 / NREE 457 / WATS 457</td>
<td>Water Law</td>
</tr>
<tr>
<td>ENSC 230</td>
<td>Energy and the Environment: Economics and Policy</td>
</tr>
<tr>
<td>ENVR 249</td>
<td>Individual and Cultural Perspectives on the Environment</td>
</tr>
<tr>
<td>ENVR 319</td>
<td>Environmental Engagement and the Community</td>
</tr>
<tr>
<td>FDST 280</td>
<td>Contemporary Issues in Food Science</td>
</tr>
<tr>
<td>NRES 104</td>
<td>Climate in Crisis</td>
</tr>
<tr>
<td>NRES 323</td>
<td>Natural Resources Policy</td>
</tr>
<tr>
<td>Credit Hours Subtotal:</td>
<td>6</td>
</tr>
</tbody>
</table>

**Free Electives**

Complete 0-2 hours of free electives 0-2

Credit Hours Subtotal: 0-2

**Requirements For Minor Offered by Department**

The agricultural and environmental sciences communication minor provides students an opportunity to focus on building communication skills and knowledge in the context of global challenges and issues related to food, fiber, fuel, and water. Students complete a series of communication courses using problem-based and experiential-learning strategies and combine subject area knowledge gained in courses from their majors with strategies and skills to effectively communicate in a 21st Century global society. Students enrolled in the minor will build knowledge and skills in visual literacy, media literacy, science literacy, as well as competencies and increased understanding of challenging, global, 21st Century issues related to communication, agriculture, and natural resources.
AESC Minor Learning Outcomes

- Develop an understanding of the importance of communication in addressing 21st Century global issues related to food, fiber, fuel, and water.
- Identify and analyze effective communication strategies for discussing challenging issues influencing food production.
- Develop and demonstrate excellence in written and oral communication through various course assignments and projects.
- Create messages and campaigns about controversial scientific issues utilizing critical communication theories and frameworks, as well as multimedia tools and applications for increasing the science literacy of diverse audiences.
- Design, implement, and evaluate a communications project integrated into real-world science engagement contexts connected to CASNR disciplines that demonstrates an understanding of media literacy, science literacy, visual literacy, and digital citizen concepts.

Requirements for the Minor

The minor is 18 credit hours (minimum), with three required core courses, two electives, and one required project course.

**Core Courses – Required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALEC 200</td>
<td>Writing for Agriculture and Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>ALEC 207 / ADPR 207</td>
<td>Communicating to Public Audiences</td>
<td>3</td>
</tr>
<tr>
<td>ALEC 350</td>
<td>Agriculture, the Environment &amp; Science in the Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 9

**Electives**

Select two of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALEC 136</td>
<td>Fundamentals of Agricultural and Environmental Sciences Communication</td>
</tr>
<tr>
<td>ALEC 240</td>
<td>Digital Photography and Visual Communication for Agriculture and the Environment</td>
</tr>
<tr>
<td>ALEC 241</td>
<td>Mobile Video Production of Agricultural and Environmental Issues</td>
</tr>
<tr>
<td>ALEC 305</td>
<td>Presentation Strategies for Agricultural Audiences</td>
</tr>
<tr>
<td>ALEC 341</td>
<td>Podcasting to Increase Science Literacy</td>
</tr>
<tr>
<td>ALEC 393</td>
<td>Digital Imaging and Storytelling in Agriculture and Natural Resources</td>
</tr>
<tr>
<td>ALEC 417 / ADPR 417</td>
<td>Issues Management and Crisis Communications in Agriculture</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 6

**Project Course – Required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALEC 421</td>
<td>Agricultural &amp; Environmental Sciences Communication Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Credit Hours Subtotal: 3

Total Credit Hours 18

1 Prerequisite is junior/senior status.

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.

Agricultural Sciences and Natural Resources

Agricultural and Environmental Sciences

Strategic Communications

Agricultural and Environmental Sciences

Public Issues Communication

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**

- Public Information Officer & Exec. Officer, The Nebraska Wheat Board & Wheat Growers Assoc. - Lincoln NE
- Deputy Press Secretary, U.S. House of Representatives - Washington DC
- Marketing Specialist, LI-COR Biosciences - Lincoln NE
- Farm Broadcaster, Rural Radio Network - Scottsbluff NE
- Communications Specialist, Farmway Coop - Beloit KS
- Editor & Agricultural Reporter, Northeast Nebraska News Company - Hartington NE
- Social Media Coordinator, RFD TV - Omaha NE
- Creative Services Manager, David & Associates - Hastings NE
- Account Coordinator, Broadhead - Minneapolis MN
- Sales Representative, Dow AgroSciences - Indianapolis IN

**Internships**

- Communications Intern, Nebraska Wheat Board - Lincoln NE
- Corporate Communications Intern, Aurora Cooperative - Aurora NE
- Marketing and Public Relations Intern, AKSARBEN Foundation - Omaha NE
- Sales Intern, Dow AgroSciences - Lincoln NE
- Promotions Department Intern, NBC Universal Sports Network - Lincoln NE
- Broadcast Intern, UNL Ed Media - Lincoln NE
- Program & Production Intern, Rural Media Group, Inc. and RFD TV - Omaha NE
- Public Relations/Marketing, Ak-Sar-Ben/River City Roundup - Omaha NE
- Media Intern, American Royal - Kansas City MO
- Marketing and Communications Intern, Agriculture Future of America - Kansas City MO

**Internships**

- Communications Intern, Nebraska Wheat Board - Lincoln NE
- Corporate Communications Intern, Aurora Cooperative - Aurora NE
- Marketing and Public Relations Intern, AKSARBEN Foundation - Omaha NE
- Sales Intern, Dow AgroSciences - Lincoln NE
- Promotions Department Intern, NBC Universal Sports Network - Lincoln NE
- Broadcast Intern, UNL Ed Media - Lincoln NE
- Program & Production Intern, Rural Media Group, Inc. and RFD TV - Omaha NE
- Public Relations/Marketing, Ak-Sar-Ben/River City Roundup - Omaha NE
- Media Intern, American Royal - Kansas City MO
- Marketing and Communications Intern, Agriculture Future of America - Kansas City MO