Imagine a career using your skills to study trends in climate plus forecast major long-term change. If you are interested in the impacts of climate change on ecosystems, water resources and society, this area of study can help you realize your career goals!

Make an appointment with our advisor to learn more about the major at the University of Nebraska-Lincoln.

**Career Path**
Climatologist, Climate Modeler, Climate Data Analyst, Climate Program Manager, Environmental Protection Specialist, Research Technician

**Special Emphasis Courses**
Atmospheric Sciences, Bio-Atmospheric Resources, Applied Climate Science, Synoptic Meteorology, Severe Storm Climatology, Natural Resource Policy, Environmental Sociology, Geology, Natural Resource Economics, Natural Resource Technology (GIS), Water Science, Soil Science

**Internships Available**
National Drought Mitigation Center, Climate Diagnostics Center, Climate Services Division of the National Weather Service, State and Regional Climate Centers, Climate Modeling and Diagnostics Center, Environmental Protection Agency

**An Undergraduate Degree Program**
Environmental Studies

University of Nebraska–Lincoln

Get involved. Get connected. Pursue your passion.
The Applied Climate Science Emphasis Area is designed to provide students with a better understanding of climate variability, change, and climate extremes and the impact on ecosystems and humans, not only in the present, but under future climates.

### COLLEGE INTEGRATIVE COURSES

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 103/AGRI 103 Intro to Agricultural &amp; Natural Resource Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

### STATISTICS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hrs</th>
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</thead>
<tbody>
<tr>
<td>STAT 218 Intro to Statistics or equivalent</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE:** Students cannot receive UNL credit for both MATH 203 and STAT 218. Students who transfer STAT 218 credit to UNL will not receive UNL credit for MATH 203.

### COMMUNICATIONS COURSES

**ACE 1:** Written: Select from: ENGL 150, 151, 254; JGEN 120, 200

**ACE 2:** Oral: COMM 109, 209, or 286, ALEC 102

Communication/Interpersonal Skills Elective Select from: ALEC 102, ENGL 101, 150, 151, 252, 253, 254; JGEN 120, 200, 300; COMM 109, 209, 212, 286

### HUMANITIES AND SOCIAL SCIENCE COURSES

Students choose one course each in ACE areas 5 and 7.

See the Human Dimensions requirement for additional Humanities and Social Science related courses.

### GEOSPATIAL SCIENCE

Select one from the following:
- NRES 312 Introduction to Geospatial Information Sciences (3 cr)
- NRES 412 Introduction to Geographic Information Systems (4 cr)
- NRES 418 Introduction to Remote Sensing (4 cr)

### EARTH SYSTEMS

**Climate** - Select one from:
- NRES 104 Climate in Crisis (3 cr)
- METR 200 Weather and Climate (4 cr)
- NRES 208 Applied Climate Science (3 cr)

**Earth & Energy Resources** - Select one from:
- NRES 108 Earth’s Natural Resource Systems Laboratory (3 cr)
- ENSC 110 Energy in Perspective (3 cr)
- GEOL 101 Physical Geology (4 cr)
- GEOL 106 Environmental Geology (3 cr)
- GEOG 155 Elements of Physical Geography (3 cr)

**Soil** - SOIL 153 Soil Resources (4 cr)

**Water Resources** - Select one from:
- ENVR 108H Humans and Water and Environment (3 cr)
- WATS 281 Intro to Water Science (3 cr)
- ENVR 361 Soils, Environment & Water Quality (3 cr)

### ENVIRONMENTAL STUDIES CORE

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 101 Environmental Studies Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 201 Science, Systems, Environment and Sustainability (ACE 8)</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 249 Individual and Cultural Perspectives on the Environment (ACE 9)</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 319 Environmental Engagement and the Community</td>
<td>2</td>
</tr>
<tr>
<td>ENVR 497 Internship in Environmental Studies</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 499a Environmental Studies Senior Thesis I</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 499b Environmental Studies Senior Thesis II</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTE:** ENVR 499a and 499b are the capstone courses (ACE 10) for Environmental Studies majors. ENVR 499H (3 cr) is the capstone course for UNL Honors students.

### ECONOMICS AND POLICY

**ACE 6:** ECON 211 or 212 or AECN 141

**NREE 265 Resource & Environmental Economics I**

### HUMAN DIMENSIONS

Students work with advisor to select courses in the areas of Human Behavior & Law and Management, Leadership & Politics. See course list in the UNL bulletin.

### MATHEMATICS

**ACE 3:** MATH 104 (3 cr) or MATH 106 (5 cr)

### NATURAL SCIENCES

**ACE 4:** Select one from the following:
- BIOS 103 Organismic Biology (4 cr)
- BIOS 101 & 101L General Biology & Lab (4 cr)
- AGRO 131 & 132 Plant Science and Lab (4 cr)
- NRES 220 & NRES 222 Principles of Ecology & Lab

Select from:
- CHEM 105 Chemistry in Context I (4 cr)
- CHEM 109 General Chemistry I (4 cr)

Select from:
- PHYS 141 Elementary General Physics I (5 cr)
- PHYS 151 Elements of Physics (4 cr)
- PHYS 211 General Physics I (5 cr)
- MYSM 109 Physical Principles in Ag (4 cr)

### Major and Emphasis Area Requirements: 90-96 Hours

**Emphasis Area Courses and Electives: 24-30 Hours**

**Credits Required to Graduate:** 120

**APPLIED CLIMATE EMPHASIS AREA COURSES**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hrs</th>
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</thead>
<tbody>
<tr>
<td>METR 200 Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>NRES 208 Applied Climate Science</td>
<td>3</td>
</tr>
<tr>
<td>ENSC 230 Energy &amp; the Environment</td>
<td>3</td>
</tr>
<tr>
<td>NRES 370 Basic and Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>METR 487 Earth's Climate: Past, Present &amp; Future</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one from:
- NRES 450 Climate and Society (3 cr) or NRES 478 Regional Climatology (3 cr)