Geography Emphasis

Environmental Studies

Geography is the one discipline that has historically spanned the natural and social sciences, making it an ideal field for students interested in human-environment relations.

**Bachelor of Arts Option:**
Good preparation for subsequent professional degrees in community and regional planning and environmental law. This option provides a good background for students interested in international government service.

**Bachelor of Sciences Option:**
Provides students with a strong scientific-base in geography focusing on principles relevant to environmental assessment, management, and research. This option is a foundation for graduate school and science-related jobs in the environmental field.

**Environmental Studies Program**

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For more information visit:
http://esp.unl.edu/current/internship.aspx
http://www.thesca.org

**Career Path**
Potential careers for environmental studies students with a geography emphasis include: environmental manager, forestry technician, geographic information systems specialist, park ranger, and survey and mapping technician. For more information visit:
http://www.uwsp.edu/geo/career.html

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**Geography Emphasis (BA/BS)**

Geography is a bridge between the social and natural sciences. Geographers with a BA study patterns of physical and cultural phenomena with a focus on human-environmental relations. With a BS, you will acquire a strong, scientific base in geography with a focus on principles relevant to environmental assessment, management, and research.

**Core Coursework**
Students with the geography emphasis will take courses in the areas of human and physical geography and geographic techniques as well as complete fundamental courses in biology, chemistry, physics, geology, meteorology, and general education.

**Internships Available**
Students have many options for internships. City, state, regional, and national environmental agencies and organizations are located in Lincoln and have hired interns from the UNL Environmental Studies Program in the past. Another option is through the Student Conservation Association. For more information visit:
http://esp.unl.edu/current/internship.aspx
http://www.thesca.org

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The University of Nebraska–Lincoln is an equal opportunity educator and employer with a comprehensive plan for diversity.
# Environmental Studies Major Requirements – Geography Emphasis (BA and BS)

## 2012-2013 Required Courses

### UNL College of Arts and Sciences

### Environmental Studies Core

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 101 Environmental Studies Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 201 Science, Systems, Environment and Sustainability (ACE B)</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 Internships 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.

### Earth Systems

13-15 Hours

- **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 Lab (3 cr)
  - ENSC 110 Energy in Perspective (3 cr)
  - GEOL 101 Physical Geology (4 cr)
  - GEOL 106 Environmental Geology (3 cr)
  - GEOL 125 Frontiers in Antarctic Geosciences (3 cr)
  - GEOG 155 Elements of Physical Geography (3 cr)
  - GEOL 181 Quality of the Environment (3 cr)

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

- **Water Resources** - Select one from:
  - ENVR 189H Humans & Water & Environment (3 cr)
  - WATS 281 Intro to Water Science (3 cr)

### Geospatial Science

3-4 Hours

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)

### Statistics

3 Hours

- STAT 218 Intro to Statistics or equivalent

**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.

### Human Dimensions

18 Hours

- SOCI 446 Environmental Sociology | 3 |
- ANTH 473 Ecological Anthropology | 3 |

Students work with advisor to select courses in the areas of Human Behavior and Law (3 cr) and Resource Management, Leadership and Politics (3 cr). See course list in the UNL bulletin.

### Policy

3 Hours

- NRES 323 Natural Resources Policy or CRPL 470 Environmental Planning & Policy or AECN Natural Resource & Environmental Law

### Economics

3 Hours

- Select one from:
  - ECON 211 or ECON 212 or AECN 141

**Note:** Total of 18 credits with at least one course from A, B, and C. See course list in the UNL bulletin.

### Geography Emphasis Area

21 Hours

- GEOG 181 Quality of the Environment | 3 |

**Bachelor of Arts (BA) Emphasis:**

**Public Speaking and Education (BA only)**

3 Hours

- Select one course from:
  - COMM 109 Fundamentals of Human Communication
  - COMM 209 Public Speaking
  - EDPS 250 Fundamentals of Child Development for Education
  - EDPS 251 Fundamentals of Adolescent Development for Education
  - ALEC 305 Presentations Strategies for Agricultural Audiences
  - ALEC 400 Overview to Program Planning
  - ALEC 413 Program Development

### Mathematics

3-5 Hours

- Select one from:
  - MATH 103 College Algebra & Trigonometry
  - MATH 104 Calculus for Managerial & Social Sciences
  - MATH 106 Analytical Geometry and Calculus I

**Bachelor of Science (BS) Emphasis:**

**Mathematics**

5 Hours

- MATH 106 Analytical Geometry and Calculus I

### Natural Sciences

14-17 Hours

- Select one from:
  - BIOS 103 Organismic Biology (4 cr)
  - BIOS 101 & 101L General Biology & Lab (4 cr)
  - BIOS 220 & 222 Principles of Ecology and Lab (4 cr)
  - BIOS 232 Ecological Issues in the Great Plains (3 cr)

- Select from:
  - CHEM 105 Chemistry in Context I (4 cr)
  - CHEM 109 General Chemistry I (4 cr)
  - CHEM 113 Fundamental Chemistry I and Lab (4 cr)

- Select from:
  - PHYS 115 Descriptive Physics (3 cr)
  - PHYS 141 Elementary General Physics I (5 cr)
  - PHYS 151 Elements of Physics (4 cr)
  - MSYM 109 Physical Principles in Ag (4 cr)

### Major and Emphasis Area Requirements: 91-99 Hours

### College Distribution Requirements, ACE Requirements, & Free Electives: 21-29 Hours

### Credits Required to Graduate: 120