Geology Emphasis (BS)

Students gain a broad background necessary for understanding environmental systems with a strong focus in the geological aspects of earth processes.

Core Coursework

Students with the geology emphasis take courses in the areas of historical, structural, and physical geology as well as complete fundamental courses in biology, chemistry, physics, geography, 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. Other options are through the Student Conservation Association and GeoCorps. For more information visit:
- http://www.geosociety.org/GeoCorps/
- http://esp.unl.edu/current/internship.aspx
- http://www.thesca.org

Career Path

Potential careers for environmental studies students with a geology emphasis include: geologist, groundwater specialist, and public servant. For more information visit:
- http://www.wiu.edu/geology/careers.htm

Environmental Studies Program

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College of Arts & Sciences
(http://ascweb.unl.edu/)
## Environmental Studies Major Requirements – Geology Emphasis (BS)

### 2012-2013 Required Courses

#### UNL College of Arts and Sciences

### ENVIRONMENTAL STUDIES CORE 13 Hours

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>Hrs</th>
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<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 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 Laboratory (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

#### ANTH 473 Ecological Anthropology

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 - Select one from:
- NRES 323 Natural Resources Policy or CRPL 470 Environmental Planning & Policy or AECN Natural Resource & Environmental Law

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

### GEOL Ogy EMPHASIS AREA 22 Hours

Choose 22 credit hours of geology courses with only 8 credits at the 100 level

### MATHEMATICS 10 Hours

- MATH 106 Analytical Geometry and Calculus I
- MATH 107 Analytical Geometry and Calculus II

### NATURAL SCIENCES 21-22 Hours

#### Select one from:
- BIOS 103 Organismic Biology (4 cr)
- BIOS 101 & 101L General Biology & Lab (4 cr)

#### Select one from:
- BIOS 220 & 222 Principles of Ecology and Lab (4 cr)
- BIOS 232 Ecological Issues in the Great Plains (3 cr)

#### Select from:
- CHEM 109 General Chemistry I (4 cr)
- CHEM 113 Fundamental Chemistry I and CHEM 116 Lab (5 cr)

#### Select from:
- PHYS 141 & 142 Elementary General Physics I & II (10 cr)
- PHYS 211 & 212 General Physics I & II and Labs (PHYS 221/PHYS 222) (10 cr)

### Major and Emphasis Area Requirements: 103-107 Hours

**College Distribution Requirements, ACE Requirements, & Free Electives:** 13-17 Hours

**Credits Required to Graduate:** 120