### GENERAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Total Credit Hours</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Upper-Division Credit Hours</td>
<td>40</td>
</tr>
</tbody>
</table>

Minimum Retention/Graduation Grade Point Averages:

- Minimum in OU Coursework: 2.25
- Minimum in Major Coursework – Combined and OU: 2.25
- Overall – Combined and OU: 2.25

### University-Wide General Education (minimum 40 hours) and College of Atmospheric and Geographic Sciences Requirements

Courses graded P/NC will not apply.

### Core Area I: Symbolic and Oral Communication (9-22 hours, 3-6 courses)

- A. English Composition (6 hours, 2 courses)
  1. English 1113, Principles of English Composition
  2. English 1213, Principles of English Composition, or EXPO 1213, Expository Writing
- B. Foreign Language (0-10 hours in the same language)
  - Students who have not completed two years of the same foreign language in high school are required to take two college courses in the same foreign language.
  1. Beginning Course (0-5 hours) _______________________
  2. Beginning Course, continued (0-5 hours) _______________________
- C. Mathematics (3 hours, 1 course), *MATH 1914, Differential & Integral Calculus I

### Core Area II: Natural Science (7 hours, 2 courses) including one laboratory component.

1. Science with Lab: *CHEM 1315, General Chemistry
2. Science without Lab: *PHYS 2514, General Physics for Engr. & Science Majors

### Core Area III: Social Science (6 hours, 2 courses)

1. Political Science 1113, American Federal Government
2. _______________________

### Core Area IV: Humanities (12 hours, 4 courses)

- a. Understanding Artistic Forms (3 hours, 1 course) _______________________
- b. Western Civilization and Culture (6 hours, 2 courses)
  1. History 1483, U.S., 1492-1865, or History 1493, U.S., 1865-Present, _______________________
  2. _______________________ (excluding HIST 1483 and 1493)
- c. Non-Western Culture (3 hours, 1 course): _______________________

### Core Area V: Senior Capstone Experience (3 hours, 1 course): _______________________

At least three hours of Upper-Division General Education coursework must be completed outside the major.

*College of Atmospheric and Geographic Sciences requirements

### Additional College of Atmospheric and Geographic Sciences

#### Bachelor of Science Requirements:

1. MATH 1914, Differential & Integral Calculus I (carries General Educ. credit)
2. MATH 2924, Differential & Integral Calculus II
3. PHYS 2524, General Physics for Engr. & Science Majors
4. CSCI 1313, Programming for Non-Majors, or METR 1313, Programming for Meteorology

MATH 1823, 2423, and 2433 will also fulfill the College's calculus requirement.

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### Additional College Requirements

#### Upper-Division Science Electives

- A minimum of 12 hours, to be chosen from the following courses or other advisor-approved courses, with no more than two courses from one department.
- ANTH 4303, Women & Development in Africa
- ARCH 4363, Sustainability: Ethics, Efficiency, Community & Design
- GEOL 3203, Globalization & the Environment
- GEOL 3253, Environmental Conservation
- GEOL 3563, Geography of Natural Resources
- GEOL 3843, Gender & Environment
- GEOL 4200, Internship in Geology
- GEOL 4573, Indigenous Peoples and Resources
- GEOL 4583, Renewable Energy Resources
- HSCI 3483, Technology, Politics & International Development
- IAS 3323, Political Economy of Development
- NPNG 3033, Fundamentals of Nonprofit Management II
- SOC 3643, Population & Society

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### Free Electives

Electives to bring total applicable hours to 120 including 40 upper-division hours.
A minimum of two semesters must be spent in residence in the College of Atmospheric and Geographic Sciences.

**TOTAL CREDIT HOURS**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Hours</th>
<th>SECOND SEMESTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1113, Principles of English Composition (Core I)</td>
<td>3</td>
<td>ENGL 1213, Principles of English Composition (Core I), or</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1483 or 1493, U.S. (Core IV)</td>
<td>3</td>
<td>EXPO 1213, Expository Writing (Core I)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1203, Global Environmental Issues (Core III)</td>
<td>3</td>
<td>*PS 1113, American Federal Government (Core III)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1914, Differential &amp; Integral Calculus I (Core I)</td>
<td>4</td>
<td>MATH 2924, Differential &amp; Integral Calculus II</td>
<td>4</td>
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<tr>
<td>Elective</td>
<td>2</td>
<td>CHEM 1315, General Chemistry (Core II)</td>
<td>5</td>
</tr>
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</table>

**TOTAL CREDIT HOURS**

15

| CS 1313, Programming for Non-Majors, or | 3 | PHYS 2524, General Physics for Engr. & Science Majors | 3 |
| METR 1313, Programming for Meteorology | 3 | GEOG 3924, Quantitative Methods | 4 |
| PHYS 2514, General Physics for Engr. & Science Majors (Core II) | 4 | General Education Understanding Artistic Forms (Core IV) | 4 |
| GIS 2023, Intro to Spatial Thinking | 3 | Free Elective | 3 |
| *General Education Western Civ. & Culture (Core IV) | 3 | | |
| Free Elective | 3 | | |

**TOTAL CREDIT HOURS**

16

<table>
<thead>
<tr>
<th>JUNIOR</th>
<th>FRESHMAN</th>
<th>SOPHOMORE</th>
<th>SENIOR</th>
<th>TOTAL CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3233, Principles of Sustainability</td>
<td>3</td>
<td>GEOG 3443, Environment and Society</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>*Culture &amp; Society Concentration Elective</td>
<td>3</td>
<td>GEOG 4523, Life Cycle Analysis</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>*Science Elective</td>
<td>3</td>
<td>*Culture &amp; Society Concentration Elective</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>*Science Elective</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Science Elective</td>
<td>3</td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL CREDIT HOURS**

15

| GEOF 3773, Geography of the United States | 3 | GEOF 4953, Capstone | 3 |
| GEOF 4893, Research Methods & Professional Development | 3 | *Culture & Society Concentration Elective | 3 |
| *Culture & Society Concentration Elective | 3 | Science Elective | 3 |
| GEOF 4893, Research Methods & Professional Development | 3 | Elective | 3 |
| *General Education Non-Western Culture (Core IV) | 3 | Elective | 3 |

**TOTAL CREDIT HOURS**

15

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1. To be chosen from the University-Wide General Education Approved Course List. Three hours of general education must be upper-division outside the major.
2. A minimum of 12 hours, to be chosen from the following concentration, with no more than two courses from one department:
   - **Culture and Society**: ANTH 4303; ARCH 4433; GEOF 489; 3203, 3253, 3503, 3643, 4200, 4573, 4574; HSCI 3493; IAS 3323; NPG 3033; SOC 3433.
3. A minimum of 15 hours of 3000-4000-level courses to be chosen from chemistry, computer science, engineering, geology, geophysics, mathematics, management information systems, meteorology, or physics; or statistics courses from microbiology, plant biology, political science, psychology, or sociology.

Bachelor’s degrees require a minimum of 48 hours of upper-division (3000-4000) coursework. This plan of study should not be used in lieu of academic advisement.

**Upper-Division Science Electives (15 hours)**

A minimum of 15 hours of 3000-4000-level courses to be chosen from chemistry, computer science, engineering, geology, geophysics, mathematics, management information systems, meteorology, or physics; or statistics courses from plant biology, microbiology, political science, psychology, or sociology.