### GENERAL REQUIREMENTS

Courses for fulfillment of General Education and College of Atmospheric & Geographic Sciences requirements must be from the approved General Education course list at [http://www.ou.edu/enrollment/home/classes_offered/general_education.html](http://www.ou.edu/enrollment/home/classes_offered/general_education.html).

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

Courses graded P/NP 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 1823, Calculus & Analytic Geometry 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

### MAJOR REQUIREMENTS

**Bachelor of Science in Environmental Sustainability**

**Core** (25 hours, 8 courses)
- GEOG 1203, Global Environmental Issues
- GEOG 3233, Principles of Sustainability
- GEOG 3443, Environment & Society
- GEOG 3773, Geography of the U.S.
- GEOG 3924, Quantitative Methods
- GEOL 4453, Geographic Information Systems
- GEOG 4543, Life Cycle Analysis
- GEOG 4953, Capstone

**Planning & Management (12 hours)**

A minimum of 12 hours, to be chosen from the following courses, with no more than two courses from one department.
- CAS 3033, Managing the Non-Profit Organization
- CAS 4033, Managing the Non-Profit Organization II
- CEE 4603, Environmental Protection
- ECON 3213, Environmental Economics
- GEOG 4200, Internship in Geography
- GEOG 4333, Corporate Environmental Strategy
- GEOG 4343, Climate, History & Society
- GEOG 4443, Urban Ecology
- GEOG 4583, Renewable Energy Resources
- GEOG/RCLI 4003, The Global City & Planning Issues

**Upper-Division Science Electives**

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.

**Free Electives**

Electives to bring total applicable hours to 120 including 48 upper-division hours.

* Courses graded P/NP will not apply.

### ADDITIONAL COLLEGE REQUIREMENTS

**Bachelor of Science Requirements:**

1. MATH 2423, Calculus & Analytic Geometry II (carries General Educ. credit)
2. MATH 2433, Calculus & Analytic Geometry III
3. MATH 2443, Calculus & Analytic Geometry IV
4. PHYS 2524, General Physics for Engr. & Science Majors
5. C S 1313, Programming for Non-Majors

MATH 1914, 2924, and 2934 will also fulfill the College’s calculus requirement.
INFORMATION CONCERNING GENERAL RULES, REGULATIONS AND MINIMUM REQUIREMENTS

TOTAL HOURS: A minimum of 120 semester hours acceptable toward graduation must be completed.

UPPER-DIVISION HOURS: A minimum of 40 upper-division semester hours acceptable toward graduation must be completed. OU courses numbered 3000 or above are upper-division. Transfer work is counted as lower-division or upper-division credit depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.

SENIOR INSTITUTION HOURS: A minimum of 60 semester hours applied toward graduation must be earned at senior (4-year) institutions.

RESIDENCY:
- A minimum of two semesters must be spent in residence in the College of Atmospheric and Geographic Sciences.
- At least 36 of the last 48 hours must be completed in residence at OU.

INDIVIDUAL STUDIES: No more than six hours of independent study or directed readings may be applied toward degree requirements.

GRADE POINT AVERAGES: Students must earn a minimum overall 2.25 for each of the following: Combined Retention GPA (all college grades), OU Retention GPA, GPA for all major courses, and GPA for all major courses taken at OU.

Refer to the OU General Catalog for more complete information.

Suggested Semester Plan of Study — Bachelor of Science in Environmental Sustainability: Planning & Management (B410 P516)
This plan shows one possible grouping of courses that would allow students to graduate in four years. Please refer to the front of the degree checksheet for official requirements. Students must consult with College of Atmospheric and Geographic Sciences and/or Department of Geography academic advisers to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Atmospheric & Geographic Sciences, and Environmental Sustainability major requirements.

<table>
<thead>
<tr>
<th>Year</th>
<th>FIRST SEMESTER</th>
<th>Hours</th>
<th>SECOND SEMESTER</th>
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<tr>
<td>FRESHMAN</td>
<td>ENGL 1113, Principles of English Composition (Core I)</td>
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<td>ENGL 1213, Principles of English Composition (Core I), or EXPO 1213, Expository Writing (Core I)</td>
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<td>HIST 1483 or 1493, U.S. (Core IV)</td>
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<td>PSC 1113, American Federal Government (Core III)</td>
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<td>MATH 2423, Calculus and Analytic Geometry II</td>
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<td>CHEM 1315, General Chemistry (Core II)</td>
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<td>PHYS 2514, General Physics for Engr. &amp; Science Majors (Core II)</td>
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<td>GEOG 3924, Quantitative Methods</td>
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<td>General Education Understanding Artistic Forms (Core IV)</td>
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<td>GEOG 3443, Environment and Society</td>
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<td>General Education Western Civ. &amp; Culture (Core IV)</td>
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<td>SENIOR</td>
<td>GEOG 4453, Geographic Information Systems</td>
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<td>General Education Non-Western Culture (Core IV)</td>
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<td>TOTAL CREDIT HOURS</td>
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</table>

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.