

# ENVIRONMENTAL SUSTAINABILITY: SCIENCE & NATURAL RESOURCES, BACHELOR OF ARTS IN ENVIRONMENTAL SUSTAINABILITY

Minimum Total Credit Hours: 120

Minimum Upper-Division Hours: 40

Overall GPA - Combined and OU: 2.25

Major GPA - Combined and OU: 2.25

Program Code: B408 P591

- Courses required for major support may *not* also fulfill University-Wide General Education Requirements.

## Major Requirements

Code	Title	Credit Hours
<b>Core</b>		
GEOG 1203	Global Environmental Issues	3
GEOG 3233	Principles of Sustainability	3
GEOG 3443	Environment and Society	3
GEOG 3773	Geography of the United States	3
GEOG 3924	Quantitative Methods	4
GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3
GEOG 4523	Life Cycle Analysis	3
GEOG 4893	Research Methods and Professional Development	3
GEOG 4953	Capstone	3
<b>Science &amp; Natural Resources</b>		
Choose a minimum of 12 hours (p. 1)		12
Total Credit Hours		40

## Major Support Requirements

### Additional College Requirements

Code	Title	Credit Hours
<b>Advisor-Approved Electives</b>		
Choose twenty-four hours of advisor-approved coursework relevant to the student's field(s) of study. These 24 hours are to be outside the student's major School or Department, and must include six hours at the upper-division level (3000-4000-level)		24
Total Credit Hours		24

## Science & Natural Resources

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.

Code	Title	Credit Hours
BIOL 3563	Biological Conservation	3
BIOL 4423	Stream Ecology	3
CEES 4243	Water Technologies for Emerging Regions	3
GEOG 3023	Principles of Physical Geography	3
GEOG 3253	Environmental Conservation	3
GEOG 3563	Geography of Natural Resources	3
GEOG 3890	Selected Studies in Geography	3
GEOG 4200	Internship in Geography	1-6
GEOG 4283	Biogeography	3
GEOG 4293	Hydrologic Science	3
GEOG 4343	Climate, History, and Society	3
GEOL 3154	Environmental Geology	4
METR 4553	Climate and Renewable Energy	3
PBIO 3453	Principles of Plant Ecology	3
PBIO 4623	Ecosystem Ecology	3
RCPL 4863	Environmental Assessment Methodologies	3
SOC 3643	Population and Society	3

## General Education and College 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/content/gened/courses.html>.

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

Courses graded P/NP will not apply

Code	Title	Credit Hours
<b>Core Area I: Symbolic and Oral Communication</b>		
<i>English Composition (6 hours)</i>		
ENGL 1113	Principles of English Composition	3
ENGL 1213	Principles of English Composition	3
	or EXPO 1213 Expository Writing	
<i>Foreign Language (0-10 hours)</i>		
(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		
	Beginning Course	0-5
	Beginning Course, continued	0-5
<i>Mathematics (3 hours)</i>		
	Choose one course from the General Education Mathematics list	3
<b>Core Area II: Natural Science (7 hours, 2 courses)</b>		

Choose two courses including one laboratory component	7
<b>Core Area III: Social Science (6 hours)</b>	
P SC 1113 American Federal Government	3
Choose one course from the General Education Social Science list	3
<b>Core Area IV: Humanities</b>	
<i>Understanding Artistic Forms (3 hours)</i>	
Choose one course from the General Education Understanding Artistic Forms list	3
<i>Western Civilization and Culture (3 hours)</i>	
HIST 1483 United States, 1492 to 1865 or HIST 1493 United States, 1865 to the Present	3
Choose one course from the General Education Western Civilization & Culture list <sup>1</sup>	3
<i>Non-Western Culture (3 hours)</i>	
Choose one course from the General Education Non-Western Culture list	3
<b>Core Area V: Senior Capstone Experience</b>	
3 hours, fulfilled in Major Requirements	3
<b>Total Credit Hours</b>	<b>37-47</b>

<sup>1</sup> Excluding HIST 1483 and HIST 1493.

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

## Additional College of Atmospheric and Geographic Sciences Bachelor of Arts Requirements

Code	Title	Credit Hours
<b>Humanities and Social Science Electives</b>		
Choose one course from Humanities <sup>1,2</sup>		3
Choose one course from Social Science <sup>1,2</sup>		3
<b>Natural Science Elective</b>		
Choose one course with or without a laboratory component <sup>1</sup>		3-4
<b>Foreign Language</b>		
Choose one course at the intermediate level <sup>3</sup>		3
<b>Total Credit Hours</b>		<b>12-13</b>

<sup>1</sup> To be chosen from the University-Wide General Education Approved Lists.

<sup>2</sup> At least one course must be completed at the upper-division level.

<sup>3</sup> If the student successfully places beyond the second intermediate course, the 13 hours of required foreign language will become free electives.

## Free Electives

Electives to bring total applicable hours to the minimum total required for the degree including 40 upper-division hours.

## Information Concerning General Rules, Regulations and Minimum Requirements for Undergraduate Degrees

**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.

## Suggested Semester Plan of Study

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 advisors to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Atmospheric & Geographic Sciences, and Environmental Sustainability major requirements.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>First Semester</b>		
ENGL 1113	Principles of English Composition (Core I)	3
Beginning Foreign Language (Core I)		5
GEOG 1203	Global Environmental Issues (Core III)	3
General Education Math (Core I) <sup>1</sup>		3
Credit Hours		14
<b>Second Semester</b>		
ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
Beginning Foreign Language continued (Core I)		5
P SC 1113	American Federal Government (Core III)	3
General Education Non-Western Culture (Core IV) <sup>1</sup>		3
Credit Hours		14
<b>Sophomore</b>		
<b>First Semester</b>		
General Education Natural Science with lab (Core II) <sup>1</sup>		4-5
GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3
General Education Understanding Artistic Forms (Core IV) <sup>1</sup>		3
Intermediate Foreign Language (College elective)		3
HIST 1483 or HIST 1493	United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present	3
Credit Hours		16-17

**Second Semester**

General Education Natural Science (Core II) <sup>1</sup>	3-4
General Education Western Civilization & Culture (Core IV) <sup>1</sup>	3
General Education Social Science Elective <sup>1</sup>	3
GEOG 3924 Quantitative Methods	4
College Elective <sup>2</sup>	3
Credit Hours	16-17

**Junior****First Semester**

GEOG 3233 Principles of Sustainability	3
College Elective <sup>2</sup>	3
College Elective <sup>2</sup>	3
Science & Natural Resources Concentration Elective <sup>3</sup>	3
General Education Humanities Elective <sup>1</sup>	3
Credit Hours	15

**Second Semester**

GEOG 3443 Environment and Society	3
GEOG 4523 Life Cycle Analysis	3
College Elective <sup>2</sup>	3
Science & Natural Resources Concentration Elective <sup>3</sup>	3
Natural Science Elective <sup>1</sup>	3-4
Credit Hours	15-16

**Senior****First Semester**

GEOG 3773 Geography of the United States	3
GEOG 4893 Research Methods and Professional Development	3
College Elective <sup>2</sup>	3
Science & Natural Resources Concentration Elective <sup>3</sup>	3
Free Elective	3
Credit Hours	15

**Second Semester**

GEOG 4953 Capstone	3
College Elective <sup>2</sup>	3
College Elective <sup>2</sup>	3
College Elective <sup>2</sup>	3
Science & Natural Resources Concentration Elective <sup>3</sup>	3
Credit Hours	15

Total Credit Hours	120-123
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<sup>1</sup> To be chosen from the University-Wide General Education Approved Course List. Three hours of general education must be upper-division outside the major.

<sup>2</sup> Twenty-four hours of advisor-approved coursework relevant to the student's field(s) of study. These 24 hours are to be outside the student's major School or Department, and must include six hours at the upper-division level (3000-4000-level).

<sup>3</sup> A minimum of 12 hours, to be chosen from the following **concentration**, with no more than two courses from one department:  
**Science and Natural Resources:** BIOL 3563, BIOL 4423; CEES 4243; GEOG 3023, GEOG 3253, GEOG 3563, GEOG 3890 (Water and Society), GEOG 4200, GEOG 4283, GEOG 4293, GEOG 4343; GEOL 3154; METR 4553; PBIO 3453, PBIO 4623; RCPL 4863; SOC 3643.