

REQUIREMENTS FOR THE BACHELOR OF SCIENCE
COLLEGE OF ATMOSPHERIC AND GEOGRAPHIC SCIENCES
THE UNIVERSITY OF OKLAHOMA

Academic Year	General Requirements	Program
For Students Entering the Oklahoma State System for Higher Education Summer 2023 through Spring 2024	Minimum Total Credit Hours 120 Minimum Upper-Division Hours 40 Minimum Retention/Graduation Grade Point Averages: Overall - Combined and OU 2.25 Major - Combined and OU 2.25	Environmental Sustainability: Culture & Society B410 P161 Bachelor of Science
OU encourages students to complete at least 30 hours of applicable coursework each year to have the opportunity to graduate in 4 years.		

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: B410 P161

General Education and College Requirements

Courses for fulfillment of General Education and college requirements must be from the approved General Education course list at <http://www.ou.edu/content/gedned/courses.html>. **Courses graded P/NP will not apply**

UNIVERSITY-WIDE GENERAL EDUCATION (MINIMUM 40 HOURS) AND COLLEGE REQUIREMENTS

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

Code	Title	Credit Hours
Core Area I: Symbolic and Oral Communication		
<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>Language (0-10 hours)</i>		
(0-10 hours in the same language) Students who have not completed two years of the same language in high school are required to take two college courses in the same language		
Beginning Course		0-5
Beginning Course, continued		0-5
<i>Mathematics (minimum 3 hours)</i>		
MATH 1743	Calculus I for Business, Life and Social Sciences 1,2	3
or MATH 1823	Calculus and Analytic Geometry I	
Core Area II: Natural Science (minimum 7 hours, 2 courses)		
CHEM 1315	General Chemistry (Science with Lab) ¹	5
PHYS 2414	General Physics for Life Science Oriented Majors ¹	4
or PHYS 2514	General Physics for Engineering and Science Majors	
Core Area III: Social Science (6 hours)		
P SC 1113	American Federal Government	3
Choose one course from the General Education Social Science list		3
Core Area IV: Arts and Humanities		
<i>Artistic Forms (3 hours)</i>		
Choose one course from the General Education Artistic Forms list.		3

<i>Western Culture (6 hours)</i>		
HIST 1483	United States to 1865	3
or HIST 1493	United States, 1865 to the Present	
Choose one course from the General Education Western Culture list (Excluding HIST 1483 and HIST 1493)		3
<i>World Culture (3 hours)</i>		
Choose one course from the General Education World Culture list		3
Core Area V: First Year Experience (3 hours)		
Choose one course		3
Total Credit Hours		39-49

¹College of Atmospheric and Geographic Sciences requirements.

²MATH 1914 will also fulfill the College's calculus requirement.

ADDITIONAL COLLEGE BACHELOR OF SCIENCE REQUIREMENTS

Code	Title	Credit Hours
PHYS 2424	General Physics for Life Science Oriented Majors	4
or PHYS 2524	General Physics for Engineering and Science Majors	
Total Credit Hours		4

Free Electives

Electives to bring total applicable hours to 120 including 40 upper-division hours.

Major Requirements

- Courses required for the major may also fulfill University-Wide General Education Requirements.

Code	Title	Credit Hours
Core		
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
Culture & Society		
Choose a minimum of 12 hours (p. 2)		12
Computer-Related		
Choose 3 hours from the following:		3
C S 1213	Programming for Non-Majors with Python	
C S 1313	Programming for Non-Majors with C	
METR 1313	Introduction to Programming for Meteorology	
MIS 2113	Computer-Based Information Systems	
Total Credit Hours		43

HSTM 3483	Technology, Politics, and International Development	3
IAS 3323	The Political Economy of Development	3
NPNG 3033	Nonprofit Management	3
SOC 3643	Population and Society	3

More information in the catalog: (<http://ou-public.courseleaf.com/atmospheric-geographic-sciences/geography-environmental-sustainability/environmental-sustainability-culture-society-bachelor-science/>).

Major Support Requirements

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

Code	Title	Credit Hours
Upper-Division Science Electives		
Choose 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		15
Total Credit Hours		15

Culture and Society Course List

A minimum of 12 hours of Culture & Society coursework is required in the major work, 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
ANTH 4303	Women and Development in Africa	3
GEOG 3253	Environmental Conservation	3
GEOG 3843	Gender and Environment	3
GEOG 4200	Internship in Geography	1-6
GEOG 4573	Indigenous Peoples and Resources	3
GEOG 4583	Energy Systems and Sustainability	3

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.

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
FRESHMAN	ENGL 1113	Principles of English Composition (Core I)	3	ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
	HIST 1483 or HIST 1493	United States to 1865 (Core IV) or United States, 1865 to the Present	3	P SC 1113	American Federal Government (Core III)	3
	GEOG 1203	Global Environmental Issues (Core III)	3	CHEM 1315	General Chemistry (Core II)	5
	MATH 1823 or MATH 1743	Calculus and Analytic Geometry I or Calculus I for Business, Life and Social Sciences	3		First Year Experience (Core V)	3
		Elective	3			
	CREDIT HOURS		15	CREDIT HOURS		14
SOPHOMORE		Computer-Related Major Requirement	3	PHYS 2424 or PHYS 2524	General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors	4
	PHYS 2414 or PHYS 2514	General Physics for Life Science Oriented Majors or General Physics for Engineering and Science Majors	4	GEOG 3924	Quantitative Methods	4
	GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3		General Education: Artistic Forms (Core IV) ¹	3
		General Education: Western Culture (Core IV) ¹	3		Free Elective	4
		Free Elective	3			
	CREDIT HOURS		16	CREDIT HOURS		15
JUNIOR	GEOG 3233	Principles of Sustainability	3	GEOG 3443	Environment and Society	3
		Culture & Society Concentration Elective ²	3	GEOG 4523	Life Cycle Analysis	3
		Science Elective ³	3		Culture & Society Concentration Elective ²	3
		Science Elective ³	3		Science Elective ³	3
		Elective	3		Science Elective ³	3
	CREDIT HOURS		15	CREDIT HOURS		15
SENIOR	GEOG 3773	Geography of the United States	3	GEOG 4953	Capstone	3
	GEOG 4893	Research Methods and Professional Development	3		Culture & Society Concentration Elective ²	3
		Culture & Society Concentration Elective ²	3		Science Elective ³	3
		General Education: World Culture (Core IV) ¹	3		Elective	3
		Free Elective	3		Elective	3
	CREDIT HOURS		15	CREDIT HOURS		15

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; NPNG 3033; GEOG 3253, GEOG 3843, GEOG 4200, GEOG 4573, GEOG 4583; HSTM 3483; IAS 3323; SOC 3643.

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.