ENVIRONMENTAL SCIENCE, BS

Students pursuing a BS in Environmental Science typically have interests in the environment, enjoy outdoor recreation, and appreciate science. The Environmental Science curriculum ensures all of our students have a solid foundation in physical and life sciences and environmental data collection and analysis. Our students will all have hands-on experiences using science to address environmental issues. The curriculum also allows some flexibility so students can tailor the upper-level electives to their own specific interests.

Environmental Science majors have the option to earn a concentration in Natural Resources and Ecosystem Conservation. This concentration follows a more narrowly focused curriculum for students that have specific interests in natural resources management.

Admission into the Major

Students are expected to formally declare a major no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). Students may declare a major by completing the Change of Major/Minor Application online under the Student tab of myBama.

BS Environmental Science

Code and Title	2	Hours
Core Hours		
Select one of	the following:	4
GY 100 or	Environmental Science	
GEO 105	5 Sustainable Earth	
Select one of	the following:	4
	Principles Of Biology I and Laboratory Biology I	
BSC 118	B Honors General Biology I	
Select one of	the following:	4
BSC 116 & BSC 117 or	Principles Biology II and Laboratory Biology II	
BSC 120	Honors Gen Biology II	
BSC 385	Ecology and Evolution	3
Select one of	the following:	4-5
CH 100	General Chemistry I - Plus	0 or 5
CH 101 or	General Chemistry	
CH 117	Honors General Chemistry	
Select one of	the following:	4
CH 102 or	General Chemistry	
CH 118	Honors General Chemistry	
GY 101	Atmospheric Proc & Patterns	4
Select one of	the following:	4
GY 102 or	Earth Surface Processes	
GEO 101	The Dynamic Earth	
GY 204	Maps and Spatial Reasoning	4
Select one of	•	3-4
GY 339 or	Natural Resource Envirmn Plang	
GY 441 or	Land Use Regulations	

GY 452	Environ Decision Making		
or			
GY 453	Environment & Society		
or			
GY 462	Land Use Science		
Select one of	the following:	3-4	
GY 420 or	Remote Sensing I		
GY 430	Intro Geographic Info Systems		
Select one of	the following:	3	
ST 260 or	Statistical Data Analysis		
PY 211	Elem Statistical Methods		
or			
BER 345	Educational Statistics		
Upper Division Electives			

Select 16 hours (see below)	16	
	Credit Hours Subtotal:	60-68

Ancillary Courses

Grades in ancillary courses are not computed into the major GPA. The major in environmental science requires the successful completion of the following course outside the major:

Total Hours		64-72	
	MATH 145	Honors Calculus I	
	MATH 125 or	Calculus I	4

Upper Division Electives

Students earning the BS in Environmental Science must complete an additional 16 hours of upper-division electives from the following courses:

Code and Title		Hours
GY 302	Climatology	3
GY 363	Geomorphology	3
GY 385	Watershed Management Plan	3
GY 404	Physical Geography SE US	3
GY 405	Dir Res Physical Geog	1-3
GY 409	Forest Ecosystem Restoration	4
GY 412	Hydroclimatology	3
GY 413	Applied Climatology	3
GY 415	Endangered Species	3
GY 444	Field Studies In Africa	6
GY 449	Field Studies: Ireland	6
GY 450	Field Studies in Belize	6
GY 451	Global Environmental Change	3
GY 454	Field Studies in Costa Rica	4
GY 470	Special Topics	3
GY 472	Soil Science	4
GY 477	Water Resources Management	3
GY 483	Environment Science Internship	3-9
GY 485	River Hydrology	3
GY 486	Watershed Science and Managmnt	3
GY 489	Forest Ecology Veg Analy	4

Grade Point Average

A 2.0-grade point average in the major is required for completion of the degree. Please see the Grades and Grade Points section of this catalog for an explanation of grade point average calculations.

Upper-level Residency

A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required Minor

The environmental science major does not require a minor.

Additional Major Requirements

Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College, and University requirements.

Total Hours 36			
	BSC 461	Ecohydrology	
	GY 491	Fluvial Geomorphology	
	GY 486	Watershed Science and Managmnt	
	GY 485	River Hydrology	
	GY 472	Soil Science	
	GY 363	Geomorphology	
Earth Surface Processes (Choose 1)			3-4
	BSC 490	Stream Ecology	
	BSC 480	Plant Ecology	
	BSC 476	Aquatic Insects	
	BSC 475	General Entomology	
	BSC 472	Mycology	
	BSC 471	Plant Physiology	
	BSC 448	Animal Behavior	
	BSC 428	Biology Of Fishes	
	BSC 415	Wetland Ecology	
	BSC 412	Limnology	

A BS in Environmental Science prepares students for a wide range of employment opportunities in the fields of natural resources management, environmental monitoring and assessment, and environmental education. Students are also prepared to continue their education in graduate schools in a variety of academic fields.

Types of Jobs Accepted

Recent graduates have accepted positions with the US Forest Service, US Geological Survey, Alabama Geological Survey, US Bureau of Land Management, National Oceanic and Atmospheric Administration, electric utility holding companies, private consulting firms in natural resources and geotechnical fields, and land trusts and other non-profit agencies.

Jobs of Experienced Alumni

Experienced alumni hold positions such as hydrologist, land manager, forester, planner, consultant, professor, land steward, conservation programs manager, arborist, ecologist, environmental analyst, ranger, silviculturist, senior analyst, environmental coordinator, recycling and green wastes coordinator, realtor, estate manager, guide, outdoor educator, and environmental inspector.

Learn more about opportunities in this field at the Career Center