

# ENVIRONMENTAL SCIENCES (BS) - NATURAL SCIENCES CONCENTRATION

## Degree Requirements

Code	Title	Hours
<b>General Education Requirements</b>		<b>53-57</b>
General Education ( <a href="http://bulletin.southalabama.edu/programs-az/arts-sciences/#generaleducationtext">http://bulletin.southalabama.edu/programs-az/arts-sciences/#generaleducationtext</a> )		
<b>Major Requirements</b>		<b>39</b>
<i>Environmental &amp; Sustainability Sciences Core</i>		
Students must earn a "C" or higher in all program core courses: ENV 100, ENV 101, ENV 335/L, ENV 337/L, ENV 339 ENV 421, and GIT 460.		
ENV 100	Gulf Coast Sustainability Seminar	1
ENV 101	Environment & Society	3
ENV 335 & 335L	Enviro Conserv/Sustainabilit-W and Env Conserv & Sustain Lab	4
ENV 337 & 337L	Enviro Sciences I and Environ Sciences I Lab	4
ENV 339	Climate Change - W	3
ENV 421	Environmental Policy	4
GIT 460	Intro to GIT	4
<i>Natural Sciences Electives</i>		<b>16</b>
Choose 16 hours from the following:		
ENV 338 & 338L	Enviro Sciences II and Environ Sciences II Lab	
ENV 334 & 334L	Enviro Monitoring & Assessment and Environmental Monitoring & Assessment Lab	
ENV 420	Natural Resource Management	
ENV 422 & 422L	Environmental Microbiology and Environmental Microbiology Laboratory	
ENV 490	Special Topics	
GEO 332	Remote Sensing I	
GEO 442	Remote Sensing II	
GEO 410	Biogeography	
GY 301	Geomorphology	
GY 425	Hydrology	
<b>Other STEM Requirements</b>		
See STEM list below.		
<b>Minor Requirements</b>		
A minor is required for this degree program		<b>18-24</b>
The Composite Science minor consists of three laboratory science sequences. Students may satisfy a Composite Science minor by completing the major additional course requirements (i.e. BLY 121/L, BLY 122/L, CH 131/L, CH 132/L, and PH 114/L) plus either PH 115 & PH 115L or PH 202 & PH 202L. Or a student could take GY 112 & GY 112L to complete the Composite Science minor or by taking GEO 101 & GEO 101L and GEO 102 & GEO 102L.		
<b>A MINIMUM OF 120 HOURS IS REQUIRED FOR A DEGREE</b>		<b>120</b>

## Other STEM Requirements

Code	Title	Hours
A minimum GPA of 2.0 required.		
BLY 121 & 121L	General Biology I and General Biology I Lab	4
BLY 122 & 122L	General Biology II and General Biology II Laboratory	4
CH 131 & 131L	General Chemistry I and General Chemistry I Lab	4
CH 132 & 132L	General Chemistry II and General Chemistry II Lab	4
PH 114 & 114L	Physics with Algebra-Trig I and Alg-Trig Based Physics I Lab	4-5
or PH 201 & 201L	Calculus-Based Physics I and Calculus-Based Physics I Lab	
MA 125 or ST 210	Calculus I Stat Reason and Application	3-4
GY 111 & 111L	Physical Geology and Physical Geology Lab	4

## Graduation Plan

(120-121 Total Hours)

### Major Milestones

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
CAS 100	First Yr Exp -	2
BLY 121 & 121L	General Biology I and General Biology I Lab	4
CH 131 & 131L	General Chemistry I and General Chemistry I Lab	4
MA 125 or ST 210	Calculus I or Stat Reason and Application	3-4
EH 101	English Composition I (Students who earn an English ACT score of 27 or above, SAT score of 610 or above on the verbal portion, or a new SAT Reading Test can opt out of EH 101.)	3
<b>Hours</b>		<b>16-17</b>
<b>Spring</b>		
GY 111 & 111L	Physical Geology and Physical Geology Lab	4
BLY 122 & 122L	General Biology II and General Biology II Laboratory	4
CH 132 & 132L	General Chemistry II and General Chemistry II Lab	4
EH 102	English Composition II	3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
ENV 100	Gulf Coast Sustainability Seminar	1
ENV 101	Environment & Society	3
ENV 337 & 337L	Enviro Sciences I and Environ Sciences I Lab	4
PH 114 & 114L	Physics with Algebra-Trig I and Alg-Trig Based Physics I Lab	5
Humanities & Fine Arts Elective (Gen Ed)		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
ENV 421	Environmental Policy	4

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CA 110	Public Speaking	3
History, Social & Behavioral Sciences (Gen Ed)		3
History, Social, & Behavioral Sciences (Gen Ed) (Social Ethics PHL 231 is recommended)		3
Humanities & Fine Arts Elective (Gen Ed)		3
<b>Hours</b>		<b>16</b>
<b>Third Year</b>		
<b>Fall</b>		
Foreign Language I (Gen Ed)		3
Humanities & Fine Arts Elective (Gen Ed)		3
Natural Sciences Conc. Elective		4
Elective		4
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
Foreign Language II (Gen Ed)		3
Natural Sciences Conc. Elective		4
English Literature (Gen Ed)		3
Elective		4
<b>Hours</b>		<b>14</b>
<b>Fourth Year</b>		
<b>Fall</b>		
ENV 339	Climate Change - W	3
GIT 460	Intro to GIT	4
Natural Sciences Conc. Elective		4
History, Social & Behavioral Elective (Gen Ed)		3
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
ENV 335 & 335L	Enviro Conserv/Sustainabilit-W and Env Conserv & Sustain Lab	4
Natural Sciences Conc. Elective		4
Minor Course (GY 112 and GY 112L recommended)		4
History, Social & Behavioral Elective (Gen Ed)		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120-121</b>

### Major Milestone Notes

- Students with ACT Math scores 22-23 should take MA 112 in the first semester. Students with ACT Math scores 21 and below should begin math courses in the summer before Fall - Year 1.
- There may be additional prerequisites for upper level major electives. Refer to the bulletin for more information.
- All Arts and Sciences majors require a minor between 18 and 24 hours. Courses used in a minor can also be used for general education requirements or major requirements (up to two courses).
- Two designated writing (W) courses are required with at least one course chosen from offerings in the student's major or minor. Courses carrying this required credit are identified in the University Bulletin by a (W) after the course title.
- The Sample 4-year plan is designed as a guide for students preparing for their course selections. This information provides only a suggested schedule. Actual course selections should be made in consultation with an advisor.