

# BIOLOGY (BS) - ENVIRONMENTAL SCIENCE CONCENTRATION

## Degree Requirements

Code	Title	Hours
<b>General Education Requirements</b>		
https://bulletin.southalabama.edu/programs-az/arts-sciences/#generaleducationtext		53-57
<b>Major Requirements</b>		<b>40</b>
<i>Biology Core</i>		
C or better is required for these six courses:		
A. Complete the following:		
BLY 121 & 121L	General Biology I and General Biology I Lab	4
BLY 122 & 122L	General Biology II and General Biology II Laboratory	4
B. Complete the following:		
BLY 300	Ecology	3
BLY 301	Cell Biology	3
BLY 302	Genetics	3
BLY 305	Introduction to Evolution	3
C. Students then must complete 20 hours of upper level Biology courses (12 of which are taken from a selection of upper level Biology courses listed below) see footnote table below (p. 1) <sup>1</sup>		20
BLY 314	Molecular Microbiology - W	
BLY 360	Invertebrate Zoology	
BLY 332	Biology of Algae	
BLY 354	General Entomology	
BLY 425	Chemical Ecology - W	
BLY 426	Freshwater Ecology	
BLY 433	Evolution of Vascular Plants	
BLY 435	Biology of Fungi	
BLY 455	Ornithology	
BLY 459	General Parasitology	
BLY 470	Herpetology	
BLY 484	Conservation Biology	

### Other STEM Requirements

See list below

### Minor Requirements

A minor is required for this degree program	18-24
<b>A MINIMUM OF 120 HOURS REQUIRED FOR DEGREE</b>	<b>120</b>

All undergraduates must complete two designated writing credit (W) courses, at least one must be in major or minor.

### Footnote

<sup>1</sup> Other preapproved elective courses, such as BLY 490, may also be accepted on a course-by-course basis.

## Other STEM Requirements

Code	Title	Hours
CH 131 & 131L	General Chemistry I and General Chemistry I Lab	4
CH 132 & 132L	General Chemistry II and General Chemistry II Lab	4
CH 201 & 201L	Organic Chemistry I and Organic Chemistry I Lab	4
Select one of the following Options:		8-10
Option 1		
PH 114 & 114L	Physics with Algebra-Trig I and Alg-Trig Based Physics I Lab	
PH 115 & 115L	Physics with Algebra -Trig II and Alg-Trig Based Physics II Lab	
Option 2		
GY 111 & 111L	Physical Geology and Physical Geology Lab	
GY 112 & 112L	Earth History and Earth History Lab	
Select one of the following Options:		4-7
Option 1		
MA 113	Precalculus Trigonometry	
or MA 115	Precal Algebra-Trigonometry	
ST 210	Stat Reason and Application	
or BLY 304	Exp. Designs in Biology	
Option 2		
MA 125	Calculus I	
<b>Total Hours</b>		<b>24-29</b>

### Notes:

Effective for Fall, 2016, Major Milestones are used in all concentrations of the Biology Bachelor of Science major to help students stay on track for timely graduation. Each regular semester in the Biology major is a tracking term. In order to remain on track, students must complete the milestone requirements for each tracking term. These requirements are viewable on the Major Milestone tab above.

Major milestone requirements apply only to full-time, degree-seeking students who first entered Fall 2016 or later. Milestone requirements do not apply to transfer students in the Biology program.