BIOLOGY (BS)

Degree Requirements

Code	• Title	Hours	
General Education Requirements			
https://bulletin #generaleduca	n.southalabama.edu/programs-az/arts-sciences/ itiontext	53-57	
Major Requirer	nents	40	
Biology Core			
C or better is required for these six courses			
A. Complete th	e 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 th	e 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 20 courses			
Other STEM Re	equirements		
See list below.			
Minor Requirer	nents		
A minor is requ	ired for this degree program	18-24	
A MINIMUM OF 120 HOURS IS REQUIRED FOR A DEGREE 120			

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

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	

Total Hours		24-29
MA 125	Calculus I	
Option 2		
or BLY 304	Exp. Designs in Biology	
ST 210	Stat Reason and Application	

Major Milestones

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 table below.

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.

The sample academic plan viewable on the Major Milestone tab below is designed to ensure graduation in the Biology major in four years. Several academic plans are available – consult with your academic advisor for the plan that is the best fit for you. For specific course requirements, refer to the program requirements above and the General Education requirements of the College of Arts and Sciences.

Biology Sample 4+Year Plan with Milestones

Course	Title	Hours
First Year		
Fall		
CAS 100	First Yr Exp -	2
EH 101	English Composition I ¹	3
MA 115 or MA 113	Precal Algebra-Trigonometry ¹ or Precalculus Trigonometry	4
CH 131 & 131L	General Chemistry I and General Chemistry I Lab	4
BLY 121 & 121L	General Biology I and General Biology I Lab	4
Milestone Notes		
Must complete at leas	t 12 hours with a 2.0 or higher GPA	
	Hours	17
Spring		
EH 102	English Composition II (or Honors)	3
ST 210	Stat Reason and Application	3
CH 132 & 132L	General Chemistry II and General Chemistry II Lab	4
BLY 122 & 122L	General Biology II and General Biology II Laboratory	4
Milestone Notes		
EH 101 or EH 105	English Composition I ¹ or Honors Composition - H	
CH 131	General Chemistry I (and lab with a grade of D or better) 1	
	Hours	14
Second Year		
Fall		
BLY 300	Ecology	3
BLY 302	Genetics	3
CH 201 & 201L	Organic Chemistry I and Organic Chemistry I Lab	4
Foreign Language I ²		3
CA 110	Public Speaking ²	3
Milestone Notes		

BLY 121	General Biology I (and lab with a grade of C or better) ^I	
	Hours	10
Spring		
BLY 301	Cell Biology	:
BLY 305	Introduction to Evolution	:
Foreign Language II	2	:
English Literature ²		:
History (US or West.	Civ.) ²	:
Milestone Notes		
CH 201	Organic Chemistry I	
& 201L	and Organic Chemistry I Lab (with a grade of D or better)	
Select one of the	following with a grade of C or better.	
BLY 300	Ecology	
BLY 301	Cell Biology	
BLY 302	Genetics	
BLY 305	Introduction to Evolution	
	Hours	1
Third Year Fall		
Biology Elective 300	level or higher	
Biology Elective 300		
Select one of the foll	-	
GY 111	Physical Geology	
& 111L	and Physical Geology Lab	
PH 114	Physics with Algebra-Trig I	
& 114L	and Alg-Trig Based Physics I Lab	
Fine Arts Elective ²		
Milestone Notes		
	following with a grade of C or better.	
BLY 300	Ecology	
BLY 301	Cell Biology	
BLY 302	Genetics	
BLY 305	Introduction to Evolution	
	Hours	1
Spring		
Biology Elective 300	level or higher	
Biology Elective 300	level or higher	
Select one of the fol	lowing:	
GY 112	Earth History	
&112L	and Earth History Lab	
PH 115	Physics with Algebra -Trig II	
&115L	and Alg-Trig Based Physics II Lab	
Social/ Behavioral E	lective ^{2,3}	
Minor		
Milestone Notes		
Apply for gradua	tion	
	Hours	1
Fourth Year	.10010	
Fourth Year Fall		
	lovel or higher	
Biology Elective 300		
Humanities Elective		
Social/ Behavioral E	lective ~	
Minor		
Minor		
Milestone Notes		
Complete a total	of at least 12 upper division (300-400) Biology elective hours	
	Hours	1
Spring		
Biology Elective 300	level or higher	
	-	
Humanities Flootive		
Humanities Elective Social/ Behavioral E Minor		

Milestone Notes

Total Hours	120
Hours	13
Complete a total of at least 20 upper division (300-400) Biology elective hours

¹ 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.

² Courses meet general education requirements.

³ Must have one history elective and one literature elective. In addition, students must choose a second history or literature to complete a two-part sequence.

Major Milestone Notes

- Students with ACT Math scores 22-23 should take MTH 100 and MA 112 in the first semester, and they will graduate with 123 hours; MA 125 also satisfies the math requirement. 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.