## BIOLOGY (BS)

Degree Requirements
Code Title
General Education Requirements
https://bulletin.southalabama.edu/programs-az/arts-sciences/ 53-57
\#generaleducationtext
Major Requirements 40

Biology Core
C or better is required for these six courses
A. Complete the following:

| BLY 121 | General Biology I | 4 |
| :--- | :--- | ---: |
| $\& 121 \mathrm{~L}$ | and General Biology I Lab |  |
| BLY 122 | General Biology II | 4 |
| $\& 122 \mathrm{~L}$ | and General Biology II Laboratory |  |

B. Complete the following:
BLY $300 \quad$ Ecology
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 Requirements

See list below.

## Minor Requirements

A minor is required 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 | General Chemistry I | 4 |
| $\& 131$ L | and General Chemistry I Lab | 4 |
| CH 132 | General Chemistry II |  |
| $\& 132$ L | and General Chemistry II Lab | 4 |
| CH 201 | Organic Chemistry I <br> \& 201L | and Organic Chemistry I Lab |
| Select one of the following Options: | $8-10$ |  |

Option 1

| PH 114 | Physics with Algebra-Trig I |
| :--- | :--- |
| \& 114L | and Alg-Trig Based Physics I Lab |
| PH 115 | Physics with Algebra -Trig II |
| \& 115L | and Alg-Trig Based Physics II Lab |
| Option 2 |  |
| GY 111 | Physical Geology |
| \& 111L | and Physical Geology Lab |
| GY 112 | Earth History |
| \& 112L | and Earth History Lab |

Select one of the following Options:

## 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 |
| :---: | :---: |
| Total Hours | $\mathbf{2 4 - 2 9}$ |

## 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 ${ }^{1}$ | 3 |
| MA 115 or MA 113 | Precal Algebra-Trigonometry ${ }^{1}$ or Precalculus Trigonometry | 4 |
| CH 131 <br> \& 131L | General Chemistry I and General Chemistry I Lab | 4 |
| BLY 121 | General Biology I | 4 |
| \& 121L | and General Biology I Lab |  |
| Milestone Notes |  |  |
| Must complete at least 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 |
| $\begin{aligned} & \text { CH } 132 \\ & \& 132 L \end{aligned}$ | General Chemistry II and General Chemistry II Lab | 4 |
| $\begin{aligned} & \text { BLY } 122 \\ & \& 122 L \end{aligned}$ | 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 | Ecology | 3 |
| BLY 300 | Genetics | 3 |
| BLY 302 | Organic Chemistry I |  |
| CH 201 | and Organic Chemistry I Lab | 4 |
| $\& 201$ L |  | 3 |
| Foreign Language I ${ }^{2}$ | Public Speaking ${ }^{2}$ | 3 |
| CA 110 |  |  |
| Milestone Notes |  | 3 |


| BLY 121 | General Biology I (and lab with a grade of C or bet |  |
| :---: | :---: | :---: |
|  | Hours | 16 |
| Spring |  |  |
| BLY 301 | Cell Biology | 3 |
| BLY 305 | Introduction to Evolution | 3 |
| Foreign Language II ${ }^{2}$ |  | 3 |
| English Literature ${ }^{2}$ |  | 3 |
| History (US or West. Civ.) ${ }^{2}$ |  | 3 |
| Milestone Notes |  |  |
| $\begin{aligned} & \text { CH } 201 \\ & \& 201 \mathrm{~L} \end{aligned}$ | Organic Chemistry I 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 | 15 |
| Third Year |  |  |
| Fall |  |  |
| Biology Elective 300 level or higher |  | 4 |
| Biology Elective 300 level or higher |  | 3 |
| Select one of the following: |  | 4 |
| GY 111 <br> \& 111L | Physical Geology and Physical Geology Lab |  |
| $\begin{aligned} & \text { PH } 114 \\ & \& 1141 \end{aligned}$ | Physics with Algebra-Trig I and Alg-Trig Based Physics I Lab |  |
| Fine Arts Electis |  | 3 |
| Milestone Notes |  |  |
| 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 | 14 |
| Spring |  |  |
| Biology Elective 300 level or higher |  | 3 |
| Biology Elective 300 level or higher |  | 3 |
| Select one of the following: |  | 4 |
| $\begin{aligned} & \text { GY } 112 \\ & \& 112 L \end{aligned}$ | Earth History and Earth History Lab |  |
| $\begin{aligned} & \text { PH } 115 \\ & \& 115 \mathrm{~L} \end{aligned}$ | Physics with Algebra -Trig II and Alg-Trig Based Physics II Lab |  |
| Social/ Behavioral Elective ${ }^{2,3}$ |  | 3 |
| Minor |  | 3 |
| Milestone Notes |  |  |
| Apply for graduation |  |  |
| Hours |  | 16 |
| Fourth Year |  |  |
| Fall |  |  |
| Biology Elective 300 level or higher |  | 3 |
| Humanities Elective ${ }^{2,3}$ |  | 3 |
| Social/ Behavioral Elective ${ }^{2}$ |  | 3 |
| Minor |  | 3 |
| Minor |  | 3 |
| Milestone Notes |  |  |
| Complete a total of at least 12 upper division (300-400) Biology elective hours |  |  |
| Hours |  | 15 |
| Spring |  |  |
| Biology Elective 300 level or higher |  | 4 |
| Humanities Elective ${ }^{2}$ |  | 3 |
| Social/ Behavioral Elective ${ }^{2}$ |  | 3 |
| Minor |  | 3 |


| Milestone Notes |  |  |
| :--- | :--- | ---: |
| Complete a total of at least 20 upper division (300-400) Biology elective hours |  |  |
|  | Hours | $\mathbf{1 3}$ |
| Total Hours | $\mathbf{1 2 0}$ |  |

${ }^{1}$ 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 twopart 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.

