

# Biology Major Requirements

## Biology Degree Requirements for a BA or BS

2019-2020 Catalog

Student: \_\_\_\_\_

Advisor: \_\_\_\_\_

### Requirements for the Major

1. Fulfill baccalaureate requirements as stated in SOU catalog.
2. Maintain a min 2.0 GPA for coursework in Biology. All courses required for the biology major (except BI 489) must be graded A - F
3. Complete the following Biology Core Requirements, Elective Requirements, Capstone Research, and Chemistry, Math and Physical Science Requirements

Term	Grade

#### CORE (39):

- BI 211 Principles of Biology (5)  
 BI 212 Principles of Biology (5)  
 BI 213 Principles of Biology (5)  
 BI 314 Comparative Animal Physiology (5)

**or** BI 331 Plant Physiology (5)


- BI 340 Introductory Ecology (4)  
 BI 341 Genetics (4)  
 BI 342 Cell Biology (5)  
 BI 348 Evolution (4)

BI 221 Careers in Biology (1) is highly recommended in the sophomore year

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- BI 489 Senior Seminar (1)

#### CHEMISTRY

##### General w/lab (15):


- CH 221, 227 (5)  
 CH 222, 228 (5)  
 CH 223, 229 (5)  
 (note: formerly CH 201-203)

##### Upper Division - Choose one sequence


- CH 331 (4)  
 BI 346 (3)  
 CH 350 (4)

##### OR


- CH 334, 337 (5)  
 CH 335, 340 (6)

Certain professional and graduate programs require additional upper division chemistry courses. See your academic advisor to make sure that you meet the necessary pre-requisite courses for admission to these programs

#### Capstone Research Requirement

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Among the five upper division electives, one must be a research intensive capstone course

##### OR

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Honors capstone Bi402H, 404H (5)

(Admission to department Honors required)

#### PHYSICAL SCIENCE

##### General Physics w/lab (15 or 18):


- PH 201, 224 (5)  
 PH 202, 225 (5)  
 PH 203, 226 (5)

##### OR


- PH 221, 224 (6)  
 PH 222, 225 (6)  
 PH 223, 226 (6)

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**Complete a minimum of five upper division biology electives, one of which must be a designated research intensive capstone course (18 credits minimum):**

Term	Grade	Course (credits)

NOTE: The following courses may not be used as upper division biology electives: BI 330, 380-389, 401-405, 409. A maximum of 3 credits from BI 407 and BI 408 may be applied to this requirement. Only 1 credit may be from BI 407. In addition, either Introductory Biochemistry (CH 350) or Biochemistry (CH 451) may be used for biology elective credit and Biogeochemistry (BI 346) may be applied as an elective if it is not used to fulfill the upper division chemistry requirement.

### **MATHEMATICS**

		MTH 243 Stats (4)
		MTH 251 Calculus (4)

### **AND**

		MTH 244 Inferential Stats (4)
		<b>or</b> MTH 252 Calculus II (4)

### **SOU General Education Requirements:**

Lower Division Explorations:

course: Strand

	E - Social Sciences
	E - Social Sciences
	E - Social Sciences
	F - Humanities
	F - Humanities
	F - Humanities

The required BI211, 212, and 213 sequence meets the strand G science explorations

Upper Division Integrations:

course: Strand

	H - Science
	I - Citizenship
	J - Diversity

I am meeting my Gen Ed through

	A House Program
	The Honors College