Degree Requirements for the BA in Biological Sciences

The BA in Biological Sciences may not be combined with any other Biosciences degree (i.e. BA Biochemistry and Cell Biology, BA Ecology and Evolutionary Biology, BS Biochemistry and Cell Biology, BS Ecology and Evolutionary Biology, Minor in Biochemistry and Cell Biology, or Minor Ecology and Evolutionary Biology). This degree is jointly managed by the Departments of Ecology and Evolutionary Biology and Biochemistry and Cell Biology.

Total hours required

This degree requires a minimum number of 127 credit hours (126 hours if Phys 101 is taken in place of Phys 125). This total includes 60 credit hours taken outside the major. The additional 60 hours may include course work in BIOC, EBIO, or other Natural Sciences or Engineering departments provided that the credit is not specifically applied toward the major. More than 126 hours may be required depending on course selection. For example, substituting 3 credit hours of Bios or Bioc 310 for a 1 credit hour laboratory course increases the required total by 2 credit hours. Completing the third Math requirement using Stat 305 adds a credit hour to the total required.

Required courses by department

**MATH**
- 101 or 111/112
- 102
- 211, 213, STAT 305, OR EBIO 338

**CHEM**
- 121 or 151
- 122 or 152
- 123 or 153
- 124 or 154
- 211 or 251
- 212 or 252
- 215

**PHYS**
- 125, 101, or 111
- 126, 102, or 112

Elective courses

*Three laboratory courses from the following list:*

- Bios or Bioc 311, 313, 318, 320 (Bioe 342), 413, 415, 530, 532, 533, 535
- Bios or Ebio 316, 317, 319, 320, 327, 330, 335, 337, 379
- Bios, Bioc, or Ebio 393

**Three Ebio 300 or 400 level lecture courses, each ≥ 3 cr. hrs.**

- selection 1: 
- selection 2: 
- selection 3: 

**One Bioc 300 or 400 level lecture course (≥ 3 cr. hrs.)**

- selection: 

**One course from: Bios or Bioc 302, 341, 344, or 352**

- selection: 

**One Bioc or Ebio lecture course (≥ 3 cr. hrs.)**

- selection: 

*Only one of the advanced laboratory course requirements can be satisfied by taking any of the following:

(i) Bios or Bioc 310 or Ebio 306 if taken for at least two credits; or (ii) HONS 470/471, if the research supervisor is from one of the biosciences departments or if the research is biological in nature and preapproved by the student's advisor; or (iii) BIOC 412; or (iv) BIOC 393 (laboratory transfer credit in biochemistry or cell biology).

***Chem 310 or Chem 311 and 312 may be substituted for BIOC 352.

Additional notes

A maximum of 3 credits of BIOS 390 and 3 credits of BIOS 391 can apply to this major.

A student may graduate under the requirements that were in place at the time of matriculation or in the year of graduation; requirements cannot be "mixed," however.