



# Biology Major B.A. Degree

## Pre- and Co-requisites (or demonstrated proficiency) (35 credits)

Term/Year

- \_\_\_\_\_ **Biology 122** Introduction to Biology: Genetics and Evolution (3 credits)
- \_\_\_\_\_ **Biology 122** Lab (1 credit)
- \_\_\_\_\_ **Biology 123** Introduction to Biology: Molecular Biology (3 credits)
- \_\_\_\_\_ **Biology 123** Lab (1 credit)
- \_\_\_\_\_ **Chemistry 110** General Chemistry I (3 credits)
- \_\_\_\_\_ **Chemistry 110** Lab (1 credit)
- \_\_\_\_\_ **Chemistry 111** General Chemistry II (3 credits)
- \_\_\_\_\_ **Chemistry 111** Lab (1 credit)
- \_\_\_\_\_ **Chemistry 210** Organic Chemistry I (3 credits)
- \_\_\_\_\_ **Chemistry 210** Lab (1 credit)
- \_\_\_\_\_ **Math 130** Introduction to Statistics (4 credits)
- \_\_\_\_\_ **Philosophy 340** Bioethics (3 credits)

Course/Term/Year

- \_\_\_\_\_ **Math 125** Transcendental Functions with Elements of Calculus (3 credits)  
OR **Math 140** Elements of Calculus (3 credits)

## Core Areas in Biology (13-14 credits)

Course/Term/Year  
(3 credits)

Any one organismal biology course with associated lab course from the list below:

- **Biology 210** Human Anatomy and Physiology I
- **Biology 220** Human Anatomy and Physiology II
- **Biology 225** Ornithology
- **Biology 240** Botany [This course has no associated lab course]
- **Biology 245** Zoology
- **Biology 250** Microbiology

Lab/Term/Year  
(1 credit)

Term/Year

- \_\_\_\_\_ **Biology 230** Genetics (3 credits)
- \_\_\_\_\_ **Biology 232** Cell Structure and Function (3 credits)
- \_\_\_\_\_ **Biology 235** Ecology (3 credits)       \_\_\_\_\_ **Biology 235** Lab (1 credit)

### Additional Mathematics or Science Course (3-4 credits)

\_\_\_\_\_ Course/Term/Year Can include Math 150 or higher, CS 180 or higher, Chem 211 (with associated lab), Physics 180 or higher (with associated lab), or any 200 level biology or higher (with associated lab)

### Biology Electives (9-12 credits)

Three 200 level and above courses. Anthropology 260 allowed. One 300-level required. May include either Earth Science 110 with associated lab, or Environmental Science 105 with associated lab, if taken before Junior year

Course/Term/Year

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Biology internships (298 or 398) may count as biology electives but can not fulfill the one 300 level course requirement.

### Junior Lab (2 credits)

Term/Year

\_\_\_\_\_ **Biology 373** Biological Laboratory Techniques: Molecular Biology (2 credits)

Two 200-level laboratory courses also required for the B.A. degree

Lab/Term/Year

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May overlap with above requirements

### Capstone Sequence (6 credits)

#### Research Seminar (1 credit)

Taken during spring term of Junior year

Term/Year

\_\_\_\_\_ **Biology 380** Research Seminar (1 credit)

#### Senior Seminar Courses (2 credits)

Term/Year

\_\_\_\_\_ **Biology 490** Biology Seminar I (1 credit)

\_\_\_\_\_ **Biology 492** Biology Seminar III (1 credit)

#### Senior Project (3 credits)

Term/Year

\_\_\_\_\_ **Biology 495** Senior Project (3 credits)