

Physiology and Biomedicine Course Guide

Here is the suggested sequence of biology classes for students with primary interests in the fields of Physiology and Biomedicine.

The Biology major requirements consist of at least 67 credits, with a minimum grade of C required in all courses counted toward the major requirements.

SECTION 1: All Biology majors must fulfill the following requirements for a total of 42 credits. Suggested semesters for taking the courses are listed in parentheses.

1. Required courses in the Biology department
Biol 151 and Biol 152/153 (Freshman year)
Biol 312 (Junior year)
2. Chemistry requirement
Chem 111 and 112 (Freshman year)
Chem 261, 262, and 269 (Sophomore year)
3. Statistics requirement
Statistics 240 or Res Econ 212 (Freshman or Sophomore year)
4. Mathematics requirement
Math 127 or Math 128 (Freshman year)
5. Physics requirement
Physics 131 and 132 (Junior year)

SECTION II: Suggested Course Sequence for Physiology and Biomedicine

25 credits must be taken; 13 of these credits must be at the 300 level or above. These elective credits must include 2 courses with a laboratory or field component and at least one course related to plant biology and one course related to animal biology.

Sophomore and Junior Year (strongly recommended courses; take at least 5)

Biol 285 Cell and Molecular Biology
Biol 283 Genetics
Biol 288 Physiology
Biol 280 Evolution
Biol 335 Topics in Plant Biology

Junior and Senior Year

(choose one of these lab courses)

Biol 383 Gene and Genome Analysis [lab]
Biol 284 General Genetics Lab [lab]
Biol 397MH Cellular and Molecular Biology Lab [lab]
Biol 477H Bioimaging [lab]

- Biol 486H Molecular Biology of Model Systems [lab]
- Biol 523 Histology [lab]

(choose electives from this list)

- Biol 510 Plant Physiology
- Biol 568 Endocrinology
- Biol 566 Comparative Physiology
- Biol 572 Neurobiology
- Biol 564 Human Physiology
- Biol 571 Biological Rhythms
- Biol 523 Histology [lab]
- Biol 550 Animal Behavior [lab]
- Biol 597AM Animal Movement
- Biol 521 Comparative Anatomy [lab]
- Biol 580 Developmental Biology