

Biology , B.S.

Department of Biology, 303-556-3213, Science Building 2042

College of Letters, Arts, & Sciences

Catalog 15-16

This sheet applies to the 2015-16 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	41-42
Major courses	40
Minor (Pre-Healthcare Minor not permitted)	18 min.
Required non-Biology electives	8
Electives	12-13
Total to graduate (min. 40 hrs. upper-division)	120 min.

Students who have reached junior standing (60 hrs.) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

*TO BE COMPLETED WITHIN FIRST 30 COLLEGE-LEVEL CREDIT HOURS

Written Communication

- ___ ENG 1010 (3 hrs.) Composing Arguments*
or ENG 1008/1009 (6 hrs.) Intro to Composition, Parts 1 & 2*
___ ENG 1020 (3 hrs.) Freshman Comp: Analysis, Research, & Documt.
(ENG 1020 must be completed within 45 credit hours)

Oral Communication*

- ___ (3 hrs.)

Quantitative Literacy*

- ___ MTH 1110 (4 hrs.) College Algebra or higher level math
(MTH 1112 College Algebra Through Modeling acceptable)
___ MTH (3-4 hrs.)

Arts and Humanities

- ___ (3 hrs.)
___ (3 hrs.)

Historical

- ___ (3 hrs.)

Natural and Physical Sciences

- ___ CHE1800 (4 hrs.) General Chemistry I
___ CHE1810 (4 hrs.) General Chemistry II
___ CHE1850 (2 hrs.) General Chemistry Lab

Social and Behavioral Sciences I

- ___ (3 hrs.)

Social and Behavioral Sciences II

- ___ (3 hrs.)

Global Diversity

- ___ (3 hrs.) may be satisfied within General Studies

MAJOR COURSES (Please see a Faculty Advisor in BIO department)

- ___ BIO 1080 (3 hrs.) General Biology I
___ BIO 1090 (1 hrs.) General Biology Lab I
___ BIO 1081 (3 hrs.) General Biology II
___ BIO 1091 (1 hrs.) General Biology Lab II
___ BIO 3600 (4 hrs.) General Genetics (check catalog for prereqs.)
or BIO 3610 (4 hrs) Genetics: Principles and Analysis

Select two of these options:

- ___ Option 1: BIO 2100 (5 hrs.) General Botany
___ Option 2: BIO 2400 (5 hrs.) General Microbiology
___ Option 3: BIO 2310 (4 hrs.) and BIO 2320 (4 hrs.)
Human Anatomy & Physiology I & II
___ Option 4: BIO 3050 (4 hrs.) Cell and Molecular Biology
___ Option 5: Either BIO 3200 (4 hrs.) Invertebrate Zoology or
BIO 3260 (4 hrs.) Vertebrate Zoology

Select one of the following:

- ___ BIO 4510 (4 hrs.) Microbial Ecology (Senior Experience)
___ BIO 4540 (4 hrs.) Plant Ecology (Senior Experience)
___ BIO 4550 (4 hrs.) Animal Ecology (Senior Experience)

Biology Electives – to total 40 hrs., selected in consultation with a BIO faculty advisor. At least 21 semester hours of the major (including genetics, ecology, and upper-division electives) must be from 3000- and 4000-level courses in Biology.

Required Non-Biology Courses:

One year of college general chemistry with lab (CHE 1800, CHE 1810, CHE 1850), Organic Chemistry I with lab (CHE 3100 and CHE 3120), either Biochemistry I (CHE 4310) or Organic Chemistry II (CHE 3110), and one year of mathematics starting with MTH 1110 or above, are requisites for a bachelor of science major in Biology.

MINOR (required)

- ___ **Multicultural** (may be taken in the major, minor, general studies, or as an elective).

ELECTIVES