

Biology, B.S.

303-556-3213 Science Building 2042

Catalog 12-13

This sheet applies to the 2012-13 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

General Studies	41-42	
Major courses	40	
Minor	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.) Freshman English: The Essay*
- or** ENG 1008/1009 (6 hrs.) Freshman Comp: The Essay Part I & II*
- ENG 1020 (3 hrs.) Freshman English: Anal., Rsrch. & Docum.
(must be completed within 45 credit hours)

Quantitative Literacy*

- MTH 1110 (4 hrs.) College Algebra or higher level math
- MTH (3-4 hrs.)

Oral Communication*

- (3 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

ELECTIVES

MAJOR COURSES (Please see a Faculty Advisor)

- 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.)

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 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 Bio-chemistry I and lab (CHE 4310 and CHE 4350 or Organic Chemistry II with lab (CHE 3110 and CHE 3130), 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).