

# Biology, B.S.

303-556-3213 Science Building 2042

Catalog 11-12

This sheet applies to the 2011-2012 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	18 min	
Required non-Biology electives	8	
Electives	12-13	
<b>Total to graduate (min. 40 hrs upper division)</b>	<b>120 min</b>	

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

**GENERAL STUDIES LEVEL I** Complete during your first 30 hours at Metro

Composition

- ENG1010-3 Freshman English: The Essay
- ENG1020-3 Freshman English: Anal., Rsrch. & Docum.

Mathematics

- MTH1110-4 College Algebra or higher level math
- MTH-3-4

Communications

- 3

**GENERAL STUDIES LEVEL II**

Historical

- 3

Arts & Letters

- 3
- 3

Social Sciences

- 3
- 3

Natural Sciences

- CHE 1800-4 General Chemistry I
- CHE 1810-4 General Chemistry II
- CHE 1850-2 General Chemistry Lab

Multicultural Requirement

*(may be satisfied within General Studies, major, minor or elective)*

- 3

**ELECTIVES**

**MAJOR COURSES**

- BIO 1080-3 General Biology I
- BIO 1090-1 General Biology Lab I
- BIO 1081-3 General Biology II
- BIO 1091-1 General Biology Lab II
- BIO 3600-4 General Genetics (check catalog for prereqs.)

Select two of these options:

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

Select one of the following:

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

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 Biochemistry 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)

A 3 hour Senior Experience is required if not taken in the Major; see approved selections and prerequisites.