

# Biology, B.S.

## 303-556-3213 Science 213

Catalog 09-10

This sheet applies to the 2009-2010 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

#### 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

#### 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 math starting w/ MTH1110 or higher (see General Studies)

One year of General Chemistry with lab (see General Studies)

CHE-4 One semester upper-division organic chemistry w/lab

CHE-4 One semester upper-division biochemistry

CHE 3110 and CHE 3130 (Organic Chemistry II and lab) may be substituted for the upper-division biochemistry requirement, with permission of Biology advisor.

MINOR (required)

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