# Biology, B.S., Medical Technology Concentration

### 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.

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 (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 the BIO dept.)

- **BIO 1080 (3 hrs.)** General Biology I
- **BIO 1090 (1 hr.)** General Biology Lab I
- **BIO 1081 (3 hrs.)** General Biology II
- **BIO 1091 (1 hr.)** General Biology Lab II
- **BIO 2400 (4 hrs.)** General Microbiology
- **BIO 3350 (3 hrs.)** Immunology
- **BIO 3351 (1 hr.)** Immunology Lab
- **BIO 3600 (4 hrs.)** General Genetics
- **BIO 3610 (4 hrs.)** Genetics: Principles and Analysis
- **BIO 4440 (3 hrs.)** Virology
- **BIO 4510 (4 hrs.)** Microbial Ecology (Senior Experience)
- **BIO 4450 (5 hrs.)** Pathogenic Microbiology

#### In consultation with a faculty advisor in BIO, select from following courses to complete 21 hrs. of upper-division & 40 total hrs. required for the Biology major:

- **BIO 3050 (4 hrs.)** Cell and Molecular Biology
- **BIO 3210 (4 hrs.)** Histology
- **BIO 3270 (4 hrs.)** Parasitology
- **BIO 3360 (4 hrs.)** Animal Physiology
- **BIO 4160 (4 hrs.)** Mycology

Medical Technology Internship Required. Must be completed at an approved school of medical technology.

#### Required Non-Biology Courses:

- One year of Math starting with MTH 1110 or higher (see General Studies)

#### Required Chemistry Minor:

- **CHE 3000 (3 hrs.)** Analytical Chemistry
- **CHE 3010 (2 hrs.)** Analytical Chemistry Lab
- **CHE 3100 (4 hrs.)** Organic Chemistry I
- **CHE 3110 (4 hrs.)** Organic Chemistry II*
- **CHE 3120 (2 hrs.)** Organic Chemistry I Lab

*or other upper-division chemistry (see faculty advisor)

#### Multicultural Requirement

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

### ELECTIVES

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