

# Biochemistry, B.S.

Department of Chemistry, 303-556-2610, Science Building 3062

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 (including physics with labs)	38 min.
Major courses	43
Ancillary courses	24
Electives	15
<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.

## \*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
- NOTE: MTH 1110 & MTH 1120 OR MTH 1400 are prereqs. for MTH 1410 do **not** take MTH 1112 College Algebra through Modeling*

### Arts and Humanities

- \_\_\_ (3 hrs.)
- \_\_\_ (3 hrs.)

### Historical

- \_\_\_ (3 hrs.)

### Natural and Physical Sciences

- \_\_\_ PHY 2010(4 hrs.) College Physics I and PHY 2030 Lab (1hr.)
- \_\_\_ PHY 2020 (4 hrs.) College Physics II and PHY 2040 Lab (1hr.)
- or
- \_\_\_ PHY 2311 (4 hrs.) General Physics I and PHY 2321 Lab (1 hr.)
- \_\_\_ PHY 2331 (4 hrs.) General Physics II and PHY 2341 Lab (1 hr.)

### 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 Faculty Advisor in CHE dept.

A grade of C or better is required for each course in the program to count toward the bachelor's degree.

- \_\_\_ CHE 1800 (4 hrs.) General Chemistry I
- \_\_\_ CHE 1810 (4 hrs.) General Chemistry II
- \_\_\_ CHE 1850 (2 hrs.) General Chemistry Lab
- \_\_\_ CHE 3000 (3 hrs.) Analytical Chemistry
- \_\_\_ CHE 3010 (2 hrs.) Analytical Chemistry Lab
- \_\_\_ CHE 3100 (4 hrs.) Organic Chemistry I
- \_\_\_ CHE 3110 (3 hrs.) Organic Chemistry II
- \_\_\_ CHE 3120 (2 hrs.) Organic Chemistry I Lab
- \_\_\_ CHE 3130 (2 hrs.) Organic Chemistry II Lab
- \_\_\_ CHE 3250 (4 hrs.) Physical Chemistry I
- \_\_\_ CHE 3280 (2 hrs.) Physical Chemistry I Lab
- \_\_\_ CHE 4310 (4 hrs.) Biochemistry I
- \_\_\_ CHE 4320 (3 hrs.) Biochemistry II
- \_\_\_ CHE 4350 (1 hr.) Biochemistry Laboratory
- \_\_\_ CHE 4950 (3 hrs.) Senior Experience in Chemistry

Biochemistry is, by nature, an interdisciplinary area of study, and the required coursework reflects that reality, offering a complete education in the biochemical, biomedical, and technical fields. The student must satisfy the non-chemistry course requirements below.

- \_\_\_ 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 3050 (4 hrs.) Cell & Molecular Biology
- \_\_\_ BIO 3600 (4 hrs.) General Genetics (check catalog for prereqs.)
- \_\_\_ MTH 1410 (4 hrs.) Calculus I
- \_\_\_ MTH 2410 (4 hrs.) Calculus II

### Multicultural Requirement

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

## ELECTIVES