

Biochemistry, B.S.

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

College of Letters, Arts, & Sciences

Catalog 14-15

This sheet applies to the 2014-15 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
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) 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 (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