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

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Studies (including physics with labs)</td>
<td>38 min.</td>
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<tr>
<td>Major courses</td>
<td>43</td>
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<tr>
<td>Ancillary courses</td>
<td>24</td>
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<tr>
<td>Electives</td>
<td>15</td>
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<tr>
<td>Total to graduate (min. 40 hrs. upper-division)</td>
<td>120 min.</td>
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*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.)  
  or PHY 2020 (4 hrs.) College Physics II and PHY 2040 Lab (1hr.)  
- ___ PHY 2311 (4 hrs.) General Physics I and PHY 2321 Lab (1 hr.)  
  or 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**