

**Biochemistry Major, B.S.**

The Biochemistry degree program offers students a focused, intensive education in the natural sciences and in the field of biochemistry. Because this degree plan is an extended major, no minor is required. *A grade of "C-" or better is required for each course in this program to count toward the bachelor's degree. See other degree requirements below!*

**Required Major Courses:**

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- CHE 1800- General Chemistry I (4)
  - CHE 1801- General Chemistry Laboratory I (1)
  - CHE 1810- General Chemistry II (4)
  - CHE 1811- General Chemistry Laboratory II (1)
  - CHE 3000- Analytical Chemistry (3)
  - CHE 3010- Analytical Chemistry Laboratory (2)
  - CHE 3100- Organic Chemistry I (4)
  - CHE 3120- Organic Chemistry I Laboratory (1)
  - CHE 3110- Organic Chemistry II (3)
  - CHE 3130- Organic Chemistry II Laboratory (2)
  - CHE 3190- Survey of Physical Chemistry I (4)
  - CHE 3200- Survey of Physical Chemistry I Lab (1)
  - CHE 4310- Biochemistry I (4)
  - CHE 4320- Biochemistry II (4)
  - CHE 4350- Biochemistry Laboratory (2)

**Additional Major Requirements:**

Students must complete a Senior Experience course offered by the Department of Chemistry.

- CHE 4300 - Advanced Inorganic Chemistry Credits (3)  
OR
- CHE 4950 - Senior Experience in Chemistry Credits (3)  
OR
- CHE 4960 - Senior Experience in Biochemistry Credits (3)

**Required Non-Chemistry Courses:**

Biochemistry is by its 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 all the non-chemistry courses below.

- BIO 1080- General Biology I (3)
- BIO 1090- General Biology I Laboratory (1)
- BIO 1081- General Biology II (3)
- BIO 1091- General Biology II Laboratory (1)
- BIO 3050- Cell Biology (4)
- BIO 3600- General Genetics (4) *or* BIO 3610 (4)
- MTH 1410- Calculus I (4)
- MTH 2410- Calculus II (4)

Select one of these two options:

**Option I:**

- PHY 2010- College Physics I (4)
- PHY 2030- College Physics I Laboratory (1)
- PHY 2020- College Physics II (4)
- PHY 2040- College Physics II Laboratory (1)

**Option II:**

- PHY 2311- General Physics I (4)
- PHY 2321- General Physics I Laboratory (1)
- PHY 2331- General Physics II (4)
- PHY 2341- General Physics II Laboratory (1)

**• Required General Studies (min 33cr.):**

English (6)	Arts and Humanities (6)	Social & Behavioral Sciences (6)
Math (4) – MTH 1110	Historical (3)	Global Diversity (3- can “double-dip”)
Oral Comm (3)	Natural & Physical Sciences (5) - Physics	Multicultural (3 – can “double-dip”)