

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

Required Major Courses:

- CHE 1800- General Chemistry I (4)
- CHE 1801-General Chemistry Laboratory I (1)
- CHE 1810- General Chemistry II (4)
- CHE 1811- General Chemistry Laboratory (1)
- 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 3000-Analytical Chemistry (3)
- CHE 3010-Analytical Chemistry Laboratory (2)
- *CHE 3250- Survey of Physical Chemistry I (4) fall only
- *CHE 3280-Survey of Physical Chemistry I Lab (1)
- CHE 4310-Biochemistry I (4)
- CHE 4320- Biochemistry II (3)
- CHE 4350-Biochemistry Laboratory (2)
- CHE 4960-Senior Experience in Biochemistry (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 the non-chemistry courses below.

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- BIO 1080- General Biology I (3)
 - BIO 1081- General Biology II (3)
 - BIO 1090- General Biology I Laboratory (1)
 - BIO 1091- General Biology II Laboratory (1)
 - BIO 3050- Cell and Molecular Biology (4)
 - BIO 3600- General Genetics (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 2020- College Physics II (4)
- PHY 2030- College Physics I Laboratory (1)
- 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)

Total Credit Hours: 41 Upper Division, 86 Total

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")

***Note:** Student planning on taking Calculus III have an option of completing Physical Chemistry I. Students who choose to take Survey of Physical Chemistry might need to change their catalog to 2017-18 or seek a degree exception. If you have questions, please see your Biochemistry advisor.