

B.S. in Biochemistry - traditional

Typical Program of Study:

Degree requirement: TOTAL = 120 Hours plus 2 Hours Wellness Requirement

	First Semester		Second Semester	
1st Year	CHEM 1211K (4) MATH 1551 (2) ENGL 1101 (3) GT 1000 (1) Core Elective* (3) Core Elective* (3) <i>Sub-Total (16)</i>	Chemical Principles I Differential Calculus English Composition I Freshmen Seminar	CHEM 1212K (4) MATH 1552 (4) ENGL 1102 (3) BIOL 1510 (4) <i>Sub-Total (15)</i>	Chemical Principles I Integral Calculus English Composition I Biological Principles
2nd Year	CHEM 2211 (3) CHEM 2311 (3) MATH 1553 (2) PHYS 2211 (4) Core Elective (3) <i>Sub-Total (15)</i>	Quantitative Analysis Lab Organic Chemistry I Intro. Linear Algebra Introduction to Physics I	CHEM 2313 (3) CHEM 2380 (2) PHYS 2212 (4) MATH 2551 (4) Core Elective (3) <i>Sub-Total (16)</i>	Bioorganic Chemistry Synthesis Lab I Introduction to Physics II Multivariable Calculus
3rd Year	CHEM 3411 (3) CHEM 4511 (3) CHEM 3371 (2) Biology Elective (3) Core Elective (3) <i>Sub-Total (14)</i>	Physical Chemistry I Biochemistry I Organic Chemistry Lab	CHEM 4512 (3) CHEM 3211 (5) Biology Elective (3) Core Elective (3) Core Elective (3) <i>Sub-Total (17)</i>	Biochemistry II Analytical Chem Lab
4th Year	CHEM 4581 (3) CHEM 4521 (3) Biology Elective (3) Free Electives (5) Core Elective (2) <i>Sub-Total (16)</i>	Biochemistry Lab I Biophysical Chemistry Wellness Requirement	CHEM 4601 (2) CHEM 4582(3) Free Electives (8) <i>Sub-Total (13)</i>	Chemistry Seminar Biochemistry Lab II

* Core Electives

Note that most core electives are 3 credits with the exception of APPH 1040 (2) or APPH 1050 (2); CS 1301, 1315, or 1371 (3); Humanities electives (6 hours required); Social Science electives (9 hours required); History / constitutional / legislative elective (3): HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000; (Credit not allowed for both INTA 1200 and POL 1101.)

**BIOL Electives

Two of the three biology electives must be:
BIOL 2344 (Genetics)
BIOL 3450 (Cellular and Mol. Biology) or

BIOL 4668 (Eukaryotic Molecular Genetics)

The remaining biology elective must be one of the following:

BIOL 3380 (Introduction to Microbiology)
BIOL 4015 (Cancer Biology and Techno.)
BIOL 4340 (Medical Microbiology)
BIOL 4401 (Experimental Design & Stat.)
BIOL 4418 (Microbial Physiology)
BIOL 4440 (Plant Physiology)

BIOL 4464 (Developmental Biology)
BIOL 4570 (Immunology & Immunochem)
BIOL 4608 (Prokaryotic Mole Genetics)
CHEM 4765 (Drug Design, Dev, Delivery)
CHEM 4803 (with permission)