
Biochemistry Major (B.S.)

34 credit hours of required courses, 32 credit hours of cognate requirements and 6 credit hours of electives.

Required Courses:		Credits
CHEM 105	General Chemistry 1: Lecture and Lab	4
CHEM 106	General Chemistry 2: Lecture and Lab	4
CHEM 308	Chemistry Topics	1
CHEM 309	Seminar in Chemistry	1
CHEM 311	Quantitative Analysis: Lecture and Lab	4
CHEM 341	Organic Chemistry 1: Lecture and Lab	4
CHEM 342	Organic Chemistry 1: Lecture and Lab	4
CHEM 425	Biochemistry 1: Lecture and Lab	4
CHEM 426	Biochemistry 2: Lecture and Lab	4
CHEM 451	Physical Chemistry 1: Lecture and Lab	4

Elective Courses:		
BIOL 407	Cell Physiology: Lecture and Lab	4
BIOL 410	Human Physiology	3
BIOL 420	Medical Microbiology	3
BIOL 426	Immunobiology	3
BIOL 483	Current Topics in Biology (with permission)	2-3
BIOL 485	Research in Biology (with permission)	1-3
CHEM 415	Instrumental Analysis: Lecture and Lab	4
CHEM 433	Inorganic Chemistry	3
CHEM 434	Inorganic Chemistry Lab	1
CHEM 444	Advanced Organic Chemistry	3
CHEM 452	Physical Chemistry 2: Lecture and Lab	4
CHEM 495	Special Topics (with permission)	3
CHEM 497	Research Problems (with permission)	1-3

Cognate Requirements:		
BIOL 151	General Biology I: Lecture and Lab	4
BIOL 152	General Biology II: Lecture and Lab	4
BIOL 311	Genetics: Lecture and Lab	4
BIOL 320	Microbiology, Lecture and Lab	4
MATH 151	Calculus I	4
MATH 152	Calculus II	4
PHYS 103*	University Physics I, Lecture and Lab	4
PHYS 204	University Physics II, Lecture and Lab	4

*PHYS 101, 102 may be substituted for PHYS 103, 204.

Recommended Coursework Outside the Major:

Consult with a departmental adviser.

Special Notes:

1. Students graduating with a major in biochemistry must complete 52 hours in the required chemistry and biology courses with at least a 2.0 in each course.
2. Students majoring in biochemistry should plan on taking

CHEM 425 and 426 during their junior year. They are also encouraged to take BIOL 151, 152, 311 and 320 prior to Biochemistry 1: Lecture and Lab.

3. Since both calculus and physics are prerequisites for CHEM 451, students are encouraged to start the cognate sequences as soon as possible.
4. Students may not double major in chemistry and biochemistry.