Student ID:_____
Student Name:_____
Advisor Name:_____

Catalog: 2024-2025 Undergraduate Catalog
Program: Natural Science, Biochemical Science Option, BS/BA

Natural Science, Biochemical Science Option, BS/BA

The Biochemical Science option is designed for students planning to enroll in post-graduate (M.S., Ph.D.) or professional school (e.g., Medical or Pharmacy School) or begin a career in industrial, agricultural, or environmental chemistry after completion of the baccalaureate degree.

A student must complete the following requirements in addition to the General Studies requirements. No grade lower than "C-" will satisfy major requirements.

Students wanting to pursue a Bachelor of Arts degree must complete the Additional BA Requirements.

Biochemical Science Option Requirements

Natural Science Core Requirements

Organismal Biology

Course Name	Credit Hours	Term Taken	Grade	Gen Ed
BIOL 101 - Introductory Botany	4 Credit Hours			
BIOL 102 - Introductory Zoology	4 Credit Hours			
BIOL 301 - Microbiology	4 Credit Hours			
BIOL 311 - Evolution & Systematic Biology	3 Credit Hours			
BIOL 317 - Ecology	4 Credit Hours			
BIOL 404 - Genetics	3 Credit Hours			

Biological Chemistry

Course Name	Credit Hours	Term Taken	Grade	Gen Ed
BIOL 330 - Cellular Biology	3 Credit Hours			
CHEM 101 - General Chemistry I	4 Credit Hours			
CHEM 102 - General Chemistry II	4 Credit Hours			

Final Defense

Course Name	Credit Hours	Term Taken	Grade	Gen Ed
BIOL 495 - Senior Competency Exam	0 Credit Hours			

Natural Science Core Total: 33

Biochemical Science Option

Advanced Biological Chemistry and Systems

Course Name	Credit Hours	Term Taken	Grade	Gen Ed
CHEM 210 - Analytical Chemistry	4 Credit Hours			
CHEM 303 - Organic Chemistry I	5 Credit Hours			
CHEM 304 - Organic Chemistry II	5 Credit Hours			
CHEM 431 - Biochemistry & Biochemical Techniques	4 Credit Hours			

Choose one of the following courses:

Course Name	Credit Hours	Term Taken	Grade	Gen Ed
BIOL 315 - Introductory Immunology	3 Credit Hours			
Or				
CHEM 220 - Introduction to Nanotechnology & Its Application	4 Credit Hours			
Or				
CHEM 461 - Molecular Biology & Molecular Techniques	4 Credit Hours			

Capstone/Practicum:

Choose one of the following courses:

Course Name	Credit Hours	Term Taken	Grade	Gen Ed
BIOL 412 - Experimental Biology	3 Credit Hours			
Or				
BIOL 490 - Undergraduate Research Thesis	3 Credit Hours			
Or				
CHEM 490 - Undergraduate Research Thesis	3 to 6 Credit Hours			

Option Total: 24 to 25

Major Total: 57 to 58

Notes: