

Biochemistry ACS-Certified Major (BCH)

Biochemistry is an interdisciplinary major appropriate for students who plan to go to health professional programs (such as medical, dental, veterinary, or pharmacy school) or to graduate studies in Biochemistry.

Current students and graduates will

- demonstrate a core of knowledge in inorganic, organic, biological, analytical, and physical chemistry
- demonstrate basic laboratory skills and the ability to select and utilize appropriate instrumentation to conduct scientific investigations and analyses
- communicate competently, in the form of an oral presentation, the results of literature research and laboratory experimentation.
- understand the major concepts and developments at the interface of chemistry and biology
- demonstrate laboratory skills and the ability to utilize and select instrumentation specific to biochemical investigations

Degree Type: Bachelor of Science (BS)

Program Contact: Assistant Professor Amanda Hughes

No minor required.

Department: Biochemistry

Type: ACS-Certified B.S.

Core Courses 58 hours

Allied Courses 14 hours

Total 72

Core Courses

Item #	Title	Credit Hour(s)
CHE111	General Chemistry I	3
CHE111L	General Chemistry I Laboratory	1
CHE112	General Chemistry II	3
CHE113	General Chemistry II Lab	1
CHE201	Organic Chemistry I	3
CHE202	Organic Chemistry Lab I - Techniques and Synthesis	1
CHE211	Descriptive Inorganic Chemistry	3
CHE213	Descriptive Inorganic Chemistry Lab	1
CHE305	Analytical Chemistry	4
CHE309	Organic Chemistry II	3
CHE310	Organic Chemistry Lab II - Qualitative Analysis and Synthesis	1
CHE325	Advanced Inorganic Chemistry Lab	1
CHE331	Physical Chemistry I	4
CHE332	Physical Chemistry II	3
CHE333	Physical Chemistry II Lab	1
CHE341	Biochemistry	3
CHE342	Biochemistry Lab	1
CHE400	Advanced Inorganic Chemistry	3
CHE450	Junior Seminar	1
CHE451	Senior Seminar	1
BIO111	Biological Principles	4
BIO212	Cellular and Molecular Biology	4
BIO335	Genetics and Molecular Biology	4
BIO337	Cell Biology	4

Allied Courses

Item #	Title	Credit Hour(s)
MAT125	Calculus I	3
MAT225	Calculus II	3
PHY211	College Physics I	4
PHY212	College Physics II	4
Total credits:		72