

BIOCHEMISTRY, B.S.

This B.S. in Biochemistry major emphasizes the role of chemical processes in living systems through a combination of coursework in biology, chemistry and allied fields. It is appropriate for students interested in pursuing an advanced degree in biochemical sciences, forensic science, medicine (including pharmacy, dentistry, optometry, physician's assistant), or for those seeking entry-level employment in the biochemistry or biotechnology industry.

The Bachelor of Science (B.S.) in Biochemistry at The College of St. Scholastica is accredited by the American Society for Biochemistry and Molecular Biology (ASBMB), www.asbmb.org (<https://www.asbmb.org/>).

Contact Information

chemistry@css.edu

Learning Outcomes

Upon completing the B.S. in Biochemistry, students will be able to:

1. Show a deep understanding of biochemistry principles.
2. Effectively communicate research findings and biochemical principles orally and in writing.
3. Analyze data produced in the lab and found in primary literature.

Requirements

Students must achieve the following program requirements for all courses listed under Program Requirements and Program Required Courses for the Biochemistry major.

Program Requirements

Major Credits: 72

Major Residency Credits: 16

Minimum GPA: 2.0

Minimum Grade: C-

Program Required Courses

Code	Title	Credits
BIO 1125	Foundations in Biology	4
BIO 2020	Microbiology	3
BIO 2021	Microbiology Lab	1
BIO 3500	Genetics	4
BIO 3600	Cell Biology	4
CHM 1110	General Chemistry I	4
CHM 1120	General Chemistry II	4
CHM 2200	Organic Chemistry I	4
CHM 2210	Organic Chemistry II	4
CHM 3000	Analytical Chemistry	4
CHM 3240	Biochemistry I	4
CHM 3430	Biochemistry II	2
CHM 3431	Biochemistry II Lab	2
CHM 3460	Physical Chemistry I	4
CHM 4000	Senior Assessment	0
MTH 2221	Calculus I	4
MTH 2222	Calculus II	4
PSC 2011	General Physics I	4

PSC 2012	General Physics II	4
Select 4 credits in upper-division BIO or CHM courses		4
Select 4 credits in upper-division BIO, CHM, MTH, PSC courses		4
Total Credits		72

Each professional school may have additional, specific admission requirements. Pre-professional students should consult with their advisor and professional school catalogs for further details. A student majoring in chemistry may earn a second degree in biochemistry by completing the additional course requirements.

Degree Requirements

To graduate from The College of St. Scholastica, baccalaureate students must meet the following minimum degree requirements.

Total Credits: 128

Upper Division Credits: 42

Residency Requirement: 32

Minimum GPA: 2.0