

# Biochemistry (B.S.)

2022-2023 catalog

**Student Name:** \_\_\_\_\_ **ID Number:** \_\_\_\_\_

## Major Requirements

Supporting course requirements in mathematics, physics, and communication must be satisfied with a grade of C- or higher. A C- or higher average must be maintained in all upper division biology and chemistry courses applied toward meeting the requirements of the major. All biology and chemistry courses applied toward the major must be traditionally graded.

Term Completed/Planned	Grade	Credit	Course #	Title
_____	_____	5	BIO151 and BIO151L	Introductory Biology (NSM-L)
_____	_____	5	BIO354 and BIO354L	Cell Biology
_____	_____	5	BIO/CHM369 and BIO/CHM369L	Biochemistry
_____	_____	4	BIO/CHM370	Biochemistry II
_____	_____	5	CHM115 and CHM115L	General Chemistry I (NSM-L)
_____	_____	5	CHM116 and CHM116L	General Chemistry II (NSM-L)
_____	_____	5	CHM251 and CHM251L	Organic Chemistry I
_____	_____	5	CHM252 and CHM252L	Organic Chemistry II
_____	_____	5	CHM280 and CHM280L	Quantitative Analytical Chemistry
_____	_____	4	CHM362	Physical Chemistry: Macroscopic Theory
_____	_____	5	PHY121 and PHY121L	General Physics I
_____	_____	5	PHY122 and PHY122L	General Physics II
_____	_____	4	MAT145	Calculus I
_____	_____	4	Either MAT146	Calculus II OR MAT255 Multivariable Calculus

Complete **two (2)** semesters of CHM491

_____	_____	0.5	CHM491	Chemistry Seminar
_____	_____	0.5	CHM491	Chemistry Seminar

Complete **eight (8)** additional credits chosen from BIO355, BIO361, BIO471, BIO473, BIO474, BIO475, BIO476, BIO486, BIO/CHM488, BIO/CHM489, BIO499, CHM368, CHM464, CHM481, CHM482, CHM499, or PHY317:

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Complete **four (4)** credits from CHM430, CHM440, or CHM450

_____	_____	2	CHM430	Advanced Thermodynamic and Separation Lab
_____	_____	2	CHM440	Advanced Synthesis Lab
_____	_____	2	CHM450	Advanced Spectroscopy and Computational Chemistry Lab

Complete **one (1)** Keystone class from BIO490, SCI490, HON490, or another keystone approved by the program

_____	_____	_____	_____	_____
_____	_____	0	_____	_____

Complete the ETS major field test

Complete **one (1)** Speaking skill class, normally chosen from COM115 (HUM), COM111 (HUM), and HON130 (HUM)

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Abbreviation Key: ML = Modern Language; SC = Signature Curriculum; EM = Engaging Minneapolis; AE = Augsburg Experience; KC = Senior Keystone Course; NSM = Natural Science & Mathematics - no lab; NSM-L = Natural Science & Mathematics-with lab; SBS = Social & Behavioral Science; FA = Fine Arts; HUM = Humanities

Student's Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Printed Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor(s): By signing, you indicate you have verified the accuracy of the information above. Faculty advisors must initial next to each course substitution/waiver and sign this form.