Biochemistry (B.S.)

2024-2025 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
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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

Complete the ETS major field test

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

		4	

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