



Bachelor in Arts with a major in BIOCHEMISTRY

MNC Courses	Credits	Saint Mary's Courses
CHEM 1521 General Chemistry 1	4	C131/133 General Chemistry I & Lab
CHEM 1522 General Chemistry 2	4	C142/144 General Chemistry II & Lab
CHEM 2311 Organic Chemistry 1	4	C321/323 Organic Chemistry I & Lab
CHEM 2312 Organic Chemistry 2	4	C325/326 Organic Chemistry II & Lab
MATH 1311 Calculus 1	4	M151 Calculus I
MATH 1312 Calculus 2	4	M152 Calculus II
PHYS 2261 General Physics 1	4	P201/202 Intro. Physics I & Lab
PHYS 2262 General Physics 2	4	P211/212 Intro. Physics II & Lab

It is recommended, but not required, that students take the following course(s) at MNC:

BIOL 1561 General Biology of Cells	3	B212 General Biology I: Cellular and Molecular Biology AND B223 Biology Lab Experience
BIOL 2371 Human Anatomy & Physiology 1	3	B214 General Biology II: Form and Function of Animals and Plants
BIOL 1562 General Biology of Organisms	3	B216 General Biology III: Ecology, Evolution, and Biological Diversity

Students may transfer an unlimited amount of credit from Minnesota North College into Saint Mary's University of Minnesota. Upon transferring into Saint Mary's, students are required to meet all graduation requirements. The courses listed above meet specific requirements of the Chemistry program, and are part of the MNC/SMUMN transfer pathway. Students are strongly encouraged to meet with a Saint Mary's adviser to discuss how to optimize transfer credit. All courses must be completed with a C- or better to transfer, however the first three courses above must be completed with a C or better to count towards the Biochemistry major at Saint Mary's.

A.A. Degree Credit Breakdown	Credits	
Completion of MnTC Requirements	32	Meets General Education Requirements
Total Credits Transferred for A.A. Degree	60	

Major courses remaining to complete B.A. in Biochemistry	Credits
B212 General Biology I: Cellular and Molecular Biology*	3
B214 General Biology II: Form and Function of Animals and Plants*	3
B216 General Biology III: Ecology, Evolution, and Biological Diversity*	3
B223 Biology Lab Experience*	1
C331 Physical Chemistry I with Lab	4
C341 Quantitative Chemical Analysis with Lab	4
C409 Biochemistry with Lab	4
C412 Molecular Biology with Lab	4
C443 Chemistry Seminar	1
C445 Chemistry Research: Planning	1
C446 Chemistry Research: Experience	1
C447 Chemistry Research: Thesis	1
One Elective (B310, B311, C332, C441)	3-4

Remaining graduation requirements for B.A. degree	Credits
Approved Theology	3
INT499: Capstone	3

Minimum Total Credits completed at Saint Mary's University	30
Total General Elective Credits needed for Degree Completion**	30
Total minimum number of credits completed as part of A.A.	60
Total Credits for B.A. in Chemistry Degree	120

*If not taken at MNC

**General Electives credits can be taken at MNC, Saint Mary's University of Minnesota, or any other regionally accredited institution.