



A.A. Transfer Pathway
Central Lakes College

Bachelor in Arts with a major in BIOCHEMISTRY		
CLC Courses	Credits	Saint Mary's Courses
CHEM 1424 Chemical Principles I	4	C131/133 General Chemistry I & Lab
CHEM 1425 Chemical Principles II	4	C142/144 General Chemistry II & Lab
CHEM 2472 Organic Chemistry I	4	C321/323 Organic Chemistry I & Lab
CHEM 2473 Organic Chemistry II	4	C325/326 Organic Chemistry II & Lab
MATH 1477 Calculus I or MATH 1480	4	M151 Calculus I
MATH 1478 Calculus II	4	M152 Calculus II
PHYS 1411 Classical Physics I & Lab	4	P201/202 Intro. Physics I & Lab
PHYS 1412 Classical Physics II & Lab	4	P211/212 Intro. Physics II & Lab

It is recommended, but not required, that students take the following course(s) at CLC:		
BIOL 1431 General Biology I	3	B212 General Biology I: Cellular and Molecular Biology AND B223 Biology Lab Experience
BIOL 2467 Anatomy and Physiology I	3	B214 General Biology II: Form and Function of Animals and Plants
BIOL 1432 General Biology II	3	B216 General Biology III: Ecology, Evolution, and Biological Diversity

Students may transfer an unlimited amount of credit from Central Lakes 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 CIC/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 Central Lakes College.

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