A.A. Transfer Pathway

Normandale Community College

Bachelor in Arts with a major in BIOCHEMISTRY

NCC Courses	Credits	Saint Mary's Courses
CHEM 1061 Principles of Chemistry 1	4	C131/133 General Chemistry I & Lab
CHEM 1061 Principles of Chemistry 1	4	C142/144 General Chemistry II & Lab
CHEM 2061 Organic Chemistry 1	4	C321/323 Organic Chemistry I & Lab
CHEM 2062 Organic Chemistry 2	4	C325/326 Organic Chemistry II & Lab
MATH 1510 Calculus 1	4	M151 Calculus I
MATH 1520 Calculus 2	4	M152 Calculus II
PHYS 1121 Physics 1 for Scientists and Eng.	4	P201/202 Intro. Physics I & Lab
PHYS 1122 Physics 2 for Scientists and Eng.	4	P211/212 Intro. Physics II & Lab

It is recommended, but not required, that students take the following course(s) at NCC:		
BIOL 1501 Principles of Biology 1	3	B212 General Biology I: Cellular and Molecular Biology AND B223 Biology Lab Experience
BIOL 1502 Principles of Biology 2	3	B216 General Biology III: Ecology, Evolution, and Biological Diversity

Students may transfer an unlimited amount of credit from Anoka-Ramsey Community 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 ARCC/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 Normandale Community College.

**Students can get credit for B214 by taking both BIOL 2041 Human Anatomy AND BIOL 2042 Human Physiology at Normandale Community College.

***BIOL 2205 Genetics or BIOL 2207 Cel Biology will fulfill the elective for the Biochemistry major at Saint Mary's University.

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