NORMANDALE COLLEGE
BIOLOGY TRANSFER PATHWAY

This document is designed for community college students completing the Biology Transfer Pathway A.S. with the intent to transfer to the University of St. Thomas and complete the Biology B.A. or B.S. degree. Students who do not intend to complete the 60-credit degree should contact our transfer admission team to plan course selections for the major and the goal areas.

Below is the list of approved coursework from the pathway that meets general education requirements or Biology major requirements. All courses must be completed with a C- or better to transfer.

Normandale Biology Pathway Credits	Credits	St. Thomas Biology Requirements Met
BIOL 1501 Principles of Biology I	4	BIOL 101 General Biology
BIOL 1502 Principles of Biology II	4	BIOL 207 Genetics Ecology and Evolution (must complete BIOL 1501 and BIOL 1502)
BIOL 2205 Genetics	4	BIOL 298 Biology Elective
Choose One: BIOL 2206 Ecology BIOL 2207 Cell Biology BIOL 2208 Biology of Microorganisms	4	 BIOL 298 Biology Elective BIOL 208 Biological Communication and Energetics BIOL 298 Biology Elective
Plus, CHEM electives CHEM 1061 Principles of Chemistry I w/lab CHEM 1062 Principles of Chemistry II w/lab	 5 5	 CHEM 111 General Chemistry I CHEM 112 General Chemistry II
Additional Math Requirement (8-10 credits): MATH 1080 Statistics* MATH 1100 College Algebra MATH 1150 Trigonometry MATH 1500 Pre-Calculus MATH 1510 Calculus I*	 8 -10	 STAT 220 Statistics I MATH 199 Mathematics Elective MATH 104 Trigonometry MATH 105 Precalculus MATH 113 Calculus I
Goal area 1 – ENGC 1101*	7	Meets English requirement
Goal area 2 –		St. Thomas recommends competition of MnTC
Goal area 3- Met in major courses		
Goal area 4 – Met in major courses		
Goal area 5 – ECON 2201, PSYC 1110 or SOC 1110	3	Meets social science analysis requirement
Goal area 6 – ART 1102 or MUSC 1121 or MUSC 1122 or MUSC 1124 or THTR 1111*	3	Meets fine arts requirement
Goal area 7-10 – HIST 1112*	3	Meets history requirement
Total credits for A.A Degree	60	
*Course has a prerequisite. See course schedule or catalog description.		

Remaining major courses for Biology B.S. degree	**Credits**
BIOL 208 Biological Comm & Energetics	4
BIOL 209 Biology of Sustainability	4
Complete 28 credits from the elective list: 16 credits must include a lab component, 4 credits at 4XX level	28
Allied course requirements:	
CHEM 111 General Chemistry I and CHEM 112 General Chemistry II or CHEM 115 Accelerated General Chemistry**	0-8
STAT 220 Statistics I or STAT 310 Biostatistics or MATH 303 Statistics for the Applied Sciences**	0-4
MATH 109 Calculus with Review II or MATH 113 Calculus I**	0-4
Complete 1 additional course from the allied elective list with faculty approval	4
** May transfer in from the biology pathway	
Total for major	40 - 56
Remaining graduation requirements for a B.S. degree	**Credits**
1 Theology course and **1** Philosophy course	8
Elective credits to reach a minimum of 129 credits	5-21
Total credits completed at university	69
Total credits for B.S. degree	129

Remaining major courses for Biology B.A. degree	Credits
BIOL 208 Biological Communication and Energetics	4
BIOL 209 Biology of Sustainability	4
Complete 18 credits from the elective list: No more than 4 credits from courses numbered BIOL 210-298, 8 credits must include a lab component, 4 credits at 4XX level	18
Allied course requirements:	
CHEM 100: Chemistry in Our World or CHEM 101: Environmental Chemistry or CHEM 108: Chemistry for Nursing or CHEM 109: General Chemistry for ENGR or CHEM 111: General Chemistry I or CHEM 112: General Chemistry II or CHEM 115: Accelerated General Chemistry**	0-8
STAT 220 Statistics I**	0-4
** May transfer in from the biology pathway	
Total for major	26 - 38
Remaining graduation requirements for a B.A. degree	**Credits**
1 Theology course and **1** Philosophy course	8
Elective credits to reach a minimum of 129 credits	23 - 35
Total credits completed at university	69
Total credits for B.A. degree	129

Advising Notes:

Biology degree can be completed as a BS or BA degree: https://www.stthomas.edu/catalog/current/biol/

All sequence courses should be completed at the same institution. Ex. Principles of Biology I & II, College Physics I & II.

Microbiology is required as an upper-division course for many graduate programs. If you plan to go on to graduate school, Microbiology should be taken after transfer.

The choice of elective courses should be based on your intended career and graduate school goals. Please contact Kristian Santiago at kristian.santiago@stthomas.edu for assistance before signing up for elective coursework. Consult with Kristian when choosing courses for goal areas 5-10 to maximize meeting St Thomas' graduation requirements. This pathway assumes the student completes the MnTC before transferring to St. Thomas. Completion of the MnTC is highly encouraged to avoid extending your graduation timeline.

Students transferring in at junior status should have the following courses completed in the major before transfer:
BIOL 1501 and 1502, CHEM 1061 and 1062, and MATH 1510

Transfer application link:
https://www.stthomas.edu/admissions/undergraduate/transfer/apply/index.html