St. Cloud Technical & Community College
Approved Courses for Biology Transfer Pathway (A.S.)

This guide is intended for students completing the Biology A.S. Transfer Pathway. Students who do not intend to complete the 60-credit program should contact Grace at grace-koehn@bethel.edu for course selection advice. All courses must be completed with a C or better to transfer. If planning to apply to graduate school, courses should be graded a B or better. Although not required, completing the MnTC prior to transfer is an option for students.

The table below lists the courses that have approved equivalencies at Bethel or fulfill requirements for the Biology B.A. or B.S. major and general graduation requirements.

St. Cloud course	**Credits**	**Bethel University course**
BLGY 1351 & 1355 General Biology I & II	8	Meets BIO 124 & 128 Integrative Biology I & II
BLGY 2340 Genetics	4	Meets cell and molecular area choice (BIO332 & 333 Genetics and Genetics Lab)
Complete one of the following courses: BLGY 2360 General Ecology BLGY 2350 Cell Biology BLGY 2330 Microbiology	4	Meets: Environmental area choice (BIO330 & 331 Ecology and lab) Biology elective (BIO354 & 355 Cell Biology and lab) Biology elective (BIO234 & 235 Microbiology and lab)
CHEM 1350 & 1355 General Chemistry I & II	8	CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 - complete Goal area 1 requirements	7	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3- fulfilled by previous sciences		
Goal area 4 – select two MATH 1300 College Algebra MATH 1321 Trigonometry MATH 1380 Pre-Calculus (recommended for Biol. B.S.) MATH 2311 Calculus I (recommended for Biology B.S.) MATH 2321 Calculus II (recommended for Biology B.S.) MATH 2330 Calculus III MATH 2340 Differential Equations MATH 2350 Differential Equations with Linear Algebra	6-10	Meets Math (M) course requirement
Goal area 5 – one course	3	Meets Global Perspectives requirement
Goal area 6 – one course	3	Meets Personal Development requirement
Electives courses (BLGY courses recommended)	17	
Total credits for A.S. degree	60	Meets Biology electives

Remaining major courses for Biology B.A. degree	**Credits**
BIO 218 Biology in a Changing World	3
BIO 399 Introduction to Research	1
BIO 461 Internship in Biology **or** BIO 496/497 Biology Research	2-3
BIO 495 Biology Seminar	2
BIO 499 Biology Symposium	0
Biology organismic area course	4
Biology environmental area choice (fulfilled by BLGY 2360)	4
Biology electives (depends on biology courses taken at SCTCC)	12-16
Total major specific credits	28-33

Remaining major courses for Biology B.S. degree	**Credits**
BIO 218 Biology in a Changing World	3
BIO 399 Introduction to Research	1
BIO 461 Internship in Biology **or** BIO 496/497 Biology Research	2-3
BIO 495 Biology Seminar	2
BIO 499 Biology Symposium	0
Biology organismic area course	4
Biology environmental area choice (fulfilled by BLGY 2360)	4
CHE 224 & 226 Organic Chemistry I&II with labs (if not taken at SCTCC)	8
Physics I&II elective	8
MAT 124M & 125 Calculus 1 & 2 (if not taken at SCTCC)	4-8
Biology electives (depends on biology courses taken at SCTCC)	12-16
Total major specific credits	44-53

Remaining graduation requirements for B.A. or B.S. degree	**Credits**
GES 130 Christianity Western Culture	4
Biblical Foundations course	3
Contemporary Christian Issue (P)	3
A course (if MnTC is not completed)	0-3
G, U, or S course (if MnTC is not completed)	3-4
Electives to reach 122 credits	Varies
Total credits completed at Bethel University	62
Total credits for B.A. or B.S. degree	122

The table below lists the courses that have approved equivalencies at Bethel or fulfill requirements for the Biochemistry/Molecular Biology B.S. or Biochemistry B.A. major and general graduation requirements.

St. Cloud course	**Credits**	**Bethel University course**
BLGY 1351 & 1355 General Biology I & II	8	Meets BIO 124 & 128 Integrative Biology I & II
BLGY 2340 Genetics	4	Meets cell and molecular area choice (BIO332 & 333 Genetics and Genetics Lab)
Complete one of the following courses: BLGY 2360 General Ecology BLGY 2350 Cell Biology BLGY 2330 Microbiology	4	Meets: Environmental area choice (BIO330 & 331 Ecology and lab) Biology elective (BIO354 & 355 Cell Biology and lab) Biology elective (BIO234 & 235 Microbiology and lab)
CHEM 1350 & 1355 General Chemistry I & II	8	CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 - complete Goal area 1 requirements	7	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3- fulfilled by previous sciences		
Goal area 4 – select two MATH 1300 College Algebra MATH 1321 Trigonometry MATH 1380 Pre-Calculus (recommended for Biol. B.S.) MATH 2311 Calculus I (recommended for Biology B.S.) MATH 2321 Calculus II (recommended for Biology B.S.) MATH 2330 Calculus III MATH 2340 Differential Equations MATH 2350 Differential Equations with Linear Algebra	6-10	Meets Math (M) course requirement
Goal area 5 – one course	3	Meets Global Perspectives requirement
Goal area 6 – one course	3	Meets Personal Development requirement
Electives courses (BLGY courses recommended)	17	Meets Biology electives
Total credits for A.S. degree	60	

Remaining major courses for Biochemistry/Cellular Biology B.S. degree	**Credits**
BIO or CHE 388 & 389 Biochemistry I & Lab	4
BIO 354 & 355 Cell Biology & Lab (fulfilled by BLGY 2350)	4
BIO 396 & 397 Molecular Biology & Lab	4
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 224, 225, 226, & 227 Organic Chemistry I&II	8
Physics Sequence	8
CHE 396 & 397 Biochemistry II & Lab	4
CHE 312 & 313 Quantitative Analysis & Lab	4
CHE 344 & 345 Thermodynamics, Kinetics, and Statistical Mechanics & Lab	4
MAT 123M Pre-Calculus (if not taken at SCTCC)	3
MAT 124M Calculus I (if not taken at SCTCC)	4
MAT 125 Calculus II (if not taken at SCTCC)	4
Biology or Chemistry Capstone sequence	4-5
Total major specific credits	41-57

Remaining major courses for Biochemistry B.A. degree	**Credits**
BIO or CHE 388 & 389 Biochemistry I & Lab	4
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 224, 225, 226, & 227 Organic Chemistry I&II	8
Physics Sequence	8
CHE 396 & 397 Biochemistry II & Lab	4
Chemistry Capstone sequence	4
300 level science courses	12
Total major specific credits	41

Remaining graduation requirements for Biochemistry/Cellular Biology degree	**Credits**
GES 130 Christianity Western Culture	4
Biblical Foundations course	3
Contemporary Christian Issue (P)	3
A course (if MnTC is not completed)	0-3
G, U, or S course (if MnTC is not completed)	3-4
Electives to reach 122 credits	Varies
Total credits completed at Bethel University	62
Total credits for B.S. degree	122