



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](mailto: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.

MN North College course	Credits	Bethel University course
BIOL 1561 & 1562 General Biology of Cells & of Organisms	8	Meets BIO 124 & 128 Integrative Biology sequence
BIOL 2330 Genetics	4	Cell and molecular area choice (BIO332 & 333 Genetics and Genetics Lab)
Complete one of the following courses: BIOL 2325 General Ecology BIOL 2320 General Microbiology	4	Meets: Environmental area choice (BIO330 & 331 Ecology and lab) Biology elective (BIO234 & 235 Microbiology and lab)
CHEM 1521 & 1522 General Chemistry I & II	8	CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 - complete goal area requirements	10	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3- fulfilled by previous sciences		
Goal area 4 – complete goal area requirements (Calculus or Stats recommended for Biology B.S.)	6-8	Meets Math (M) course requirement
Goal area 5 – one course required	3	Meets Global Perspectives requirement
Goal area 6 – one course required	3	Meets Personal Development requirement
If additional course required to reach 60 credits, BIOL courses recommended, or CHEM2311 & 2312, or PHYS1211 & 1212 or PHYS2261 & 2262		Meets Biology electives CHE224, 225, 226, 227 Organic Chemistry I & II Physics sequence
Total credits for A.S. degree	60	

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 (if not taken at MN North)	4
Biology environmental area choice (fulfilled by BIOL 2325)	4
Biology electives (depends on biology courses taken at MN North)	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 481 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 (if not taken at MN North)	4
Biology environmental area choice (fulfilled by BIO 2325)	4
CHE 224 & 226 Organic Chemistry I&II with labs (if not taken at MN North)	8
Physics I&II elective (if not taken at MN North)	8
Calculus or Statistics (if not taken at MN North)	4
Biology electives (depends on biology courses taken at MN North)	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. major or Biochemistry B.A. and general graduation requirements.

MN North College course	Credits	Bethel University course
BIOL 1561 & 1562 General Biology of Cells & of Organisms	8	Meets BIO 124 & 128 Integrative Biology I & II
BIOL 2330 Genetics	4	Meets BIO332 & 333 Genetics and Genetics Lab
Complete one of the following courses: BIOL 2325 General Ecology BIOL 2320 General Microbiology	4	Meets: Elective Elective
CHEM 1521 & 1522 General Chemistry I & II	8	CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 - complete goal area requirements	10	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3- fulfilled by previous sciences		
Goal area 4 – complete goal area requirements (Calculus recommended for Biochem/MolBio B.S.)	6-8	Meets Math (M) course requirement
Goal area 5 – one course required	3	Meets Global Perspectives requirement
Goal area 6 – one course required	3	Meets Personal Development requirement
If additional course required to reach 60 credits, CHEM2311 & 2312, or PHYS1211 & 1212 or PHYS2261 & 2262		CHE224, 225, 226, 227 Organic Chemistry I & II Physics sequence
Total credits for A.S. degree	60	

Remaining major courses for Biochemistry/Molecular Biology B.S. degree	Credits
BIO 354 & 355 Cell Biology & Lab	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 (if not taken at MN North)	8
Physics Sequence (if not taken at MN North)	8
CHE 388 & 389 Biochemistry I & Lab	4
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 MN North)	3
MAT 124M Calculus I (if not taken at MN North)	4
MAT 125 Calculus II (if not taken at MN North)	4
Biology or Chemistry Capstone sequence	4-5
Total major specific credits	41-57



<b>Remaining major courses for Biochemistry B.A. degree</b>	<b>Credits</b>
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 224, 225, 226, & 227 Organic Chemistry I&II (if not taken at MN North)	8
Physics Sequence (if not taken at MN North)	8
CHE 388 & 389 Biochemistry I & Lab	4
CHE 396 & 397 Biochemistry II & Lab	4
Chemistry Capstone sequence	4
300 level science courses	12
Total major specific credits	41

<b>Remaining graduation requirements for B.S. or B.A. degree</b>	<b>Credits</b>
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