



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.

Inver Hills Community College course	Credits	Bethel University course
BIOL 1154 & 1155 Principles of Biology I & II	9	Meets BIO 124 & 128 Integrative Biology I & II
BIOL 2303 Genetics	4	Meets cell and molecular area choice (BIO332 & 333 Genetics and Genetics Lab)
Complete one of the following courses: BIOL 2306 General Ecology BIOL 2205 Microbiology	4	Meets: Environmental area choice (BIO330 & 331 Ecology and lab) Biology elective (BIO234 & 235 Microbiology and lab)
CHEM 1061 & 1062 Principles of Chemistry I & II	10	CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 - complete Goal area 1 requirements	9-10	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3- fulfilled by previous sciences		
Goal area 4 – MATH 1118 or higher (at least 8 credits) MATH 1127 Pre-Calculus (recommended for Biol. B.S.) MATH 1133 Calculus 1 (recommended for Biology B.S.)	8	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
Any MnTC goal area	8-9	Meets general education if MnTC is complete
If additional course required to reach 60 credits, BIOL 2201 & 2202 or BIOL 2301 recommended		Meets organismal area choice or Biology elective
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	4
Biology environmental area choice (fulfilled by BIO 2306)	4
Biology electives (depends on biology courses taken at Inver Hills)	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 BIO 2306)	4
CHE 224 & 226 Organic Chemistry I&II with labs	8
Physics I&II elective	8
MAT 124M & 125 Calculus 1 & 2 (if not taken at Normandale)	4-8
Biology electives (depends on biology courses taken at Normandale)	12-16
Total major specific credits	44-53



<b>Remaining graduation requirements for B.A. or B.S. 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.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 and general graduation requirements.

<b>Inver Hills Community College course</b>	<b>Credits</b>	<b>Bethel University course</b>
BIOL 1154 & 1155 Principles of Biology I & II	9	Meets BIO 124 & 128 Integrative Biology I & II
BIOL 2303 Genetics	4	Meets BIO332 & 333 Genetics and Genetics Lab
Complete one of the following courses: BIOL 2306 General Ecology BIOL 2205 Microbiology	4	Meets: Elective Elective
CHEM 1061 & 1062 Principles of Chemistry I & II	10	CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 - complete Goal area 1 requirements	9-10	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3- fulfilled by previous sciences		
Goal area 4 – MATH 1118 or higher (at least 8 credits) MATH 1127 Pre-Calculus (recommended) MATH 1133 Calculus 1 (recommended)	8	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
Any MnTC goal area	8-9	Meets general education if MnTC is complete
If additional course required to reach 60 credits, Organic Chem. I & II or Calculus I & II recommended		Meets Organic Chemistry I & II or Calculus I & II requirement
Total credits for A.S. degree	60	

<b>Remaining major courses for Biochemistry/Molecular Biology B.S. degree</b>	<b>Credits</b>
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 Inver Hills)	8
Physics Sequence	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 Inver Hills)	3
MAT 124M Calculus I (if not taken at Inver Hills)	4
MAT 125 Calculus II (if not taken at Inver Hills)	4
Biology or Chemistry Capstone sequence	4-5
Total major specific credits	41-57



<b>Remaining graduation requirements for Biochemistry/Molecular Biology 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