



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.

Century College course	Credits	Bethel University course
BIOL 1041 & 1042 Principles of Biology I & II	10	Meets BIO 124 & 128 Integrative Biology sequence
BIOL 2028 Ecology	4	Meets environmental area choice (BIO330 & 331 Ecology and Ecology lab)
BIOL 2038 Genetics	4	Meets molecular area choice (BIO332 & 333 Genetics and Genetics Lab)
CHEM 1041 & 1042 Principles of Chemistry I & II	10	CHE 113 & 214 General Chemistry I & II and labs
Additional electives; the following recommended: BIOL 2031 & 2032 Human Anatomy & Physiology I & II (must take both at the same school) BIOL 2035 Microbiology CHEM 2041 & 2042 Organic Chemistry I & II (recommended for B.S. degree) PHYS 1041 & 1042 General Physics I & II OR PHYS 1081 & 1082 Introductory Physics I & II (one PHYS sequence recommended for B.S. degree)	8	Meets: Organismic area choice BIO214 & 215 Human Anat & lab and biology elective BIO216 & 217 Human Phys & lab Biology elective BIO234 & 235 Microbiology & lab CHE224, 225, 226, & 227 Organic Chemistry I & II and labs PHY 202D, 206 & 207 Introductory Physics I & II and labs PHY 292D, 296 & 297 General Physics I & II and labs
Goal area 1 - ENGL 1020 OR ENGL 1021 Composition I AND ENGL 1022 Composition II AND one COMM course	10	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3 - fulfilled by science course listed above		
Goal area 4 – select two (Math 1061 or higher)	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
Goal area 7-10 – Three credits in each of two Goal areas selected from Goals 7, 8, 9 or 10 are required. Many courses from Goals 1-6 also meet Goals 7-10. One course may fulfill a maximum of two Goals. Credits count only once.	0-6	Meets general education if MnTC is complete
Any additional courses required to complete A.S. degree		
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 (fulfilled by BIOL 2031 & 2032)	4
Biology electives (depends on biology courses taken at Century)	12-16
Total major specific credits	26-29



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
CHE 224 & 226 Organic Chemistry I&II with labs (if not taken at Century)	8
Physics I&II elective (if not taken at Century)	8
Biology electives (depends on biology courses taken at Century)	12-16
Total major specific credits	34-42

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 or Q course (if MnTC is not completed)	1-4
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.

Century College course	Credits	Bethel University course
BIOL 1041 & 1042 Principles of Biology I & II	10	Meets BIO 124 & 128 Integrative Biology I & II
BIOL 2028 Ecology	4	Bethel elective BIO330 & 331 Ecology and lab
BIOL 2038 Genetics	4	BIO332 & 333 Genetics and Genetics lab
BIOL 1041 & 1042 Principles of Chemistry I & II	10	CHE 113 & 214 General Chemistry I & II and labs
Additional electives; the following recommended: CHEM 2041 & 2042 Organic Chemistry I & II PHYS 1041 & 1042 General Physics I & II OR PHYS 1081 & 1082 Introductory Physics I & II	8	Meets: BIO 224, 225, 226, & 227 Organic Chemistry I & II and labs PHY 202D, 206 & 207 Introductory Physics I & II and labs PHY 292D, 296 & 297 General Physics I & II and labs
Goal area 1 - ENGL 1020 OR ENGL 1021 Composition I AND ENGL 1022 Composition II AND one COMM course	10	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – fulfilled with MnTC		
Goal area 3- fulfilled by previous sciences		
Goal area 4 – MATH 1081 & 1082 recommended	8	Meets Math (M) course and major course requirements MAT124M Calculus 1 and MAT125 Calculus 2
Goal area 5 – one course	3	Meets Global Perspectives requirement
Goal area 6 – one course	3	Meets Personal Development requirement
Goal area 7-10 – Three credits in each of two Goal areas selected from Goals 7, 8, 9 or 10 are required. Many courses from Goals 1-6 also meet Goals 7-10. One course may fulfill a maximum of two Goals. Credits count only once.	0-6	Meets general education if MnTC is complete
Any additional courses required to complete A.S. degree		



Total credits for A.S. degree	60	
-------------------------------	----	--

Remaining major courses for Biochemistry/Molecular Biology B.S. degree	Credits
BIO or CHE 388 & 389 Biochemistry I & Lab	4
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 Century)	8
Physics Sequence (if not taken at Century)	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 124 Calculus 1 & MAT 125 Calculus 2 (if not taken at Century)	4-8
Biology or Chemistry Capstone sequence	4-5
Total major specific credits	36-54

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 or Q course (if MnTC is not completed)	1-4
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