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.

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.

Anoka-Ramsey Community College course	Credits	Bethel University course
BIOL 1106 & 1107 Principles of Biology I&II	8	Meets BIO 124, 124D, 128 & 128D Integrative Biology sequence
BIOL 2202 Genetics	4	Meets molecular area choice BIO 332 & 333 Genetics & lab
Choose one of the Restricted Biology Electives: BIOL 2201 Microbiology BIOL 2208 Cell Biology BIOL 2209 General Ecology	4	Meets : Biology elective (BIO234 & 235 Microbiology & lab) Biology elective (BIO354 & 355 Cell Biology & lab) Environmental area choice (BIO330 & 331 Ecology & lab)
Choose at least 14 credits from additional Math and Science Electives: BIOL 1103 & 1133 Environmental Science & Lab BIOL 2201 Microbiology BIOL 2206 Animal Biology BIOL 2207 Plant Biology BIOL 2208 Cell Biology BIOL 2209 General Ecology CHEM 2061 Organic Chemistry I CHEM 2062 Organic Chemistry II MATH 1114 Introduction to Statistics MATH 1400 Calculus I* MATH 1401 Calculus II* PHYS 1317 General Physics I* PHYS 1318 General Physics II* PHYS 1327 College Physics I* PHYS 1328 College Physics II* *recommended for Biology BS	14	Meets: ENS 104 & 104D Environment & Humanity (only for ENS B.S.) Biology elective (BIO234 & 235 Microbiology & lab) Biology elective Biology elective Biology elective (BIO354 & 355 Cell Biology & lab) Environmental area choice (BIO330 & 331 Ecology & lab) CHE 224 & 225 Organic Chemistry I & lab CHE 226 & 227 Organic Chemistry II & lab MAT207M Statistical Analysis MAT124M Calculus 1 MAT125 Calculus 2 PHY202 & 202D Introductory Physics I & lab PHY206 & 207 Introductory Physics II & lab PHY292 & 292D General Physics I & lab PHY296 & 297 General Physics II & lab
Goal area 1 - ENGL 1120 **OR** ENGL 1121 **AND** CMST 1110 **OR** CMST 2215 **OR** CMST 2220	7	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – met by ENGL 1120 **OR** ENGL 1121		
Goal area 3- CHEM 1061 & 1062 Principles of Chemistry I & II	8	Meets CHE 113 & 214 General Chemistry I & II and labs
Goal area 4 – MATH 1200 (or higher) **AND** MATH course higher than 1200	7-10	Meets Math (M) course requirement
Goal area 5 – Choose course(s) totaling three (3) credits	3	Meets Global Perspectives requirement
Goal area 6 – Choose course(s) totaling three (3) credits	3	Meets Personal Development requirement
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 course (fulfilled by BIOL 2209)	4
Biology electives (depends on biology courses taken at ARCC)	12-16

Total major specific credits	30-33

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
CHE 224, 225, 226 & 227 Organic Chemistry I & II with labs*	8
Physics I & II elective*	8
Biology environmental area course*	4
Biology organismic area course	4
Biology electives (depends on biology courses taken at ARCC)	12-16
*Can be fulfilled as part of AS degree	
Total major specific credits	37-43

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.

Anoka-Ramsey Community College course	Credits	Bethel University course
BIOL 1106 & 1107 Principles of Biology I&II	8	Meets BIO 124 & 128 Integrative Biology I & II
BIOL 2202 Genetics	4	Meets molecular area choice *BIO 332 Genetics*
Choose for Restricted Biology Electives: BIOL 2208 Cell Biology	4	Meets BIO 354 & 355 Cell Biology
Choose at least 14 credits from additional Math and Science Electives: CHEM 2061 & 2062 Organic Chemistry I&II PHYS 1317 & 1318 General Physics I&II **OR** PHYS 1327 & 1328 College Physics I&II **AND** MATH 1401 Calculus II* *recommended	15-17	Meets: CHE 224, 225, 226, & 227 Organic Chemistry I&II PHY 202D, 206, & 207 Introductory Physics I&II PHY 292D, 296, & 297 General Physics I&II MAT 125 Calculus II
Goal area 1 - ENGL 1120 **OR** ENGL 1121 **AND** CMST 1110 **OR** CMST 2215 **OR** CMST 2220	7	Meets GES 160 Inquiry Seminar requirement
Goal area 2 – met by ENGL 1120 **OR** ENGL 1121		
Goal area 3- CHEM 1061 & 1062 Principles of Chemistry I & II	8	Meets CHE 113 & 214 General Chemistry I & II and labs
Goal area 4 – MATH 1210 Precalculus & MATH 1400 Calculus I	10	Meets Math (M) course requirement and major requirements

Goal area 5 – Choose course(s) totaling three (3) credits	3	Meets Global Perspectives requirement
Goal area 6 – Choose course(s) totaling three (3) credits	3	Meets Personal Development requirement
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 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 ARCC)	8
Physics Sequence (if not taken at ARCC)	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
Biology or Chemistry Capstone sequence	4-5
Total major specific credits	36-38

Remaining graduation requirements for Biochemistry/Molecular 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