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.

Minneapolis College course	**Credits**	**Bethel University course**
BIOL 2200 & 2202 Biology 1 & 2	8	Meets BIO 124, 124D, 128 & 128D Integrative Biology sequence
BIOL 2205 Genetics	4	Cell & molecular area choice (BIO 332 & 333 Genetics & lab)
Choose one of the following: BIOL 2235 Microbiology BIOL 2245 General Ecology	4	Meets : Biology elective (BIO234 & 235 Microbiology & lab) Environmental area choice (BIO330 & 331 Ecology & lab)
Choose from additional electives: BIOL 2224 Anatomy BIOL 2225 Physiology BIOL 2260 Animal Biology BIOL 2250 Plant Biology BIOL 2208 Molecular Biology CHEM 2204 & 2224 Organic Chemistry I & lab* CHEM 2205 & 2225 Organic Chemistry II & lab* PHYS 1131 College Physics 1* PHYS 1132 College Physics 2* PHYS 1211 Physics for Science and Engineering 1 PHYS 1221 Physics for Science and Engineering 2 *recommended for Biology BS	10-14	Meets: Organismic area choice (BIO 214 & 215 Anatomy and lab) Organismic area choice (BIO 216 & 217 Physiology and lab) Biology elective Biology elective Biology elective (BIO 396 & 397 Molecular Biology & lab) CHE 224 & 225 Organic Chemistry I & lab CHE 226 & 227 Organic Chemistry II & lab PHY202 & 202D Introductory Physics I & lab PHY206 & 207 Introductory Physics II & lab PHY292 & 292D General Physics I & lab PHY296 & 297 General Physics II & lab
CHEM 1151 & 1152 Principles of Chemistry 1 & 2	10	Meets CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 - meet goal area requirement	9	Meets GES 160 Inquiry Seminar requirement
Goal area 3- fulfilled by previous sciences		
Goal area 4 – any Goal Area 4 course (MATH 1150, MATH 1180, or MATH 1190 recommended for Biology B.S.)	7-10	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
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 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 (fulfilled by BIOL 2224 or 2225)	4
Biology environmental area course (fulfilled by BIOL 2245)	4
Biology electives (depends on biology courses taken at MCTC)	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 481 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 (if not taken at MCTC)	8
Physics I & II elective (if not taken at MCTC)	8
Statistics or Calculus course (if not taken at MCTC)	
Biology organismic area course (fulfilled by BIOL 2224 or 2225)	4
Biology environmental area course (fulfilled by BIOL 2245)	4
Biology electives (depends on biology courses taken at MCTC)	12-16
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. or Biochemistry B.A. major and general graduation requirements.

Minneapolis College course	**Credits**	**Bethel University course**
BIOL 2200 & 2202 Biology 1 & 2	8	Meets BIO 124, 124D, 128 & 128D Integrative Biology sequence
BIOL 2205 Genetics	4	Meets molecular area choice (BIO 332 & 333 Genetics & lab)
Choose one of the following: BIOL 2235 Microbiology BIOL 2245 General Ecology	4	Meets : Elective Elective
Choose from additional electives: BIOL 2208 Molecular Biology CHEM 2204 & 2224 Organic Chemistry I & lab* CHEM 2205 & 2225 Organic Chemistry II & lab* PHYS 1131 College Physics 1* PHYS 1132 College Physics 2* PHYS 1211 Physics for Science and Engineering 1 PHYS 1221 Physics for Science and Engineering 2 *recommended for BS degree	10-14	Meets: BIO 396 & 397 Molecular Biology & lab CHE 224 & 225 Organic Chemistry I & lab CHE 226 & 227 Organic Chemistry II & lab PHY202 & 202D Introductory Physics I & lab PHY206 & 207 Introductory Physics II & lab PHY292 & 292D General Physics I & lab PHY296 & 297 General Physics II & lab
CHEM 1151 & 1152 Principles of Chemistry 1 & 2	10	Meets CHE 113 & 214 General Chemistry I & II and labs
Goal area 1 – meet goal area requirement	9	Meets GES 160 Inquiry Seminar requirement
Goal area 3 – fulfilled by previous sciences		
Goal area 4 – any Goal Area 4 course (MATH 1180, or MATH 1190 recommended for B.S.)	7-10	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
Total credits for A.S. degree	60	

Remaining major courses for Biochemistry/Molecular Biology B.S. degree	**Credits**
BIO 396 & 397 Molecular Biology & Lab (if not taken at MCTC)	4
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 224, 225, 226, & 227 Organic Chemistry I & II (if not taken at MCTC)	8
Physics Sequence (if not taken at MCTC)	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
Biology or Chemistry Capstone sequence	4-5
Total major specific credits	36-38

Remaining major courses for Biochemistry B.A. degree	**Credits**
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 224, 225, 226, & 227 Organic Chemistry I & II (if not taken at MCTC)	8
Physics Sequence (if not taken at MCTC)	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

Remaining graduation requirements for Biochemistry/Molecular Biology degree	**Credits**
GES 130 Christianity and 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