This guide is intended for students completing the Chemistry A.S. Transfer Pathway. Students who do not intend to complete the 60-credit program should contact Grace Koehn 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 Chemistry B.A., Chemistry B.S., or Biochemistry B.A. majors and general graduation requirements. **Note: All labs must be done in person to transfer to Bethel.**

Minnesota North College course	Credits	Bethel University course
CHEM 1521 General Chemistry I	4	CHE 113 and 113D General Chemistry I w/lab
CHEM 1522 General Chemistry II	4	CHE 214 and 215 General Chemistry II w/lab
CHEM 2311 Organic Chemistry I	5	CHE 224 and 225 Organic Chemistry I w/lab
CHEM 2312 Organic Chemistry II	5	CHE 226 and 227 Organic Chemistry II w/lab
MATH 1311 Calculus I	5	MAT 124M Calculus I
MATH 1312 Calculus II	4	MAT 125 Calculus II
PHYS 2261 General Physics I	4	PHY 292 and 292D General Physics I w/lab
PHYS 2262 General Physics II	4	PHY 296 and 297 General Physics II w/lab
Any additional courses required to complete A.S. degree		
Total credits for A.S. degree	60	

Remaining major courses for Chemistry B.A. degree	Credits
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 312 & 313 Quantitative Analysis and Quantitative Analysis Lab	4
CHE 344 & 345 Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE 395 Chemistry Seminar: Research and Professional Development	1
CHE 490 Chemistry Seminar: Research	2
CHE 494 Chemistry Seminar: Research Presentation	1
Choose electives at the 3XX or 4XX level	12
Total major specific credits	25

Remaining major courses for Chemistry B.S. degree (ACS certified major)	Credits
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 312 & 313 Quantitative Analysis and Quantitative Analysis Lab	4
CHE 320 & 321 Instrumental Analysis and Instrumental Analysis Lab	4
CHE 344 & 345 Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE 348 & 349 Quantum Chemistry and Spectroscopy and Quantum Chemistry and Spectroscopy Lab	4
CHE 364 & 365 Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab	4
CHE 388 & 389 Biochemistry I and Biochemistry I Lab	4
CHE 395 Chemistry Seminar: Research and Professional Development	1
CHE 490 Chemistry Seminar: Research	2
CHE 494 Chemistry Seminar: Research Presentation	1
Choose electives at the 3XX or 4XX level	6
MAT 222 Differential Equations or MAT 223 Multivariable Calculus	3
Total major specific credits	38

Remaining major courses for Biochemistry B.A. degree	Credits
BIO 124 & 124D Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab**	4
BIO 128 &128D Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab**	4
CHE 200 Laboratory Safety and Chemical Hygiene	1
CHE 388 & 389 Biochemistry I and Biochemistry I Lab	4
CHE 395 Chemistry Seminar: Research and Professional Development	1
CHE 396 & 397 Biochemistry II and Biochemistry II Lab	4
CHE 490 Chemistry Seminar: Research	2
CHE 494 Chemistry Seminar: Research Presentation	1
Choose from any 3XX level applied health science, biology, chemistry, engineering, environmental science, neuroscience, or physics courses from approved list	12
**if not transferred from community college	
Total major specific credits	25-32

Remaining graduation requirements for Bethel degree	Credits
GES 130 Christianity & Western Culture	4
Biblical Foundations course	3
Choose 2 Cultural Intelligence courses	8
Contemporary Christian Issue (P)	3
Electives to reach 122 credits	Varies
Total credits for degree	122+