B.A. in Mathematics 2023-2024: Option 1 - CWILT

FIRST YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
COS 100 Introduction to Programming or COS 205 Scientific Computing	3	GES 160 Inquiry Seminar	3	MAT 125 Calculus 2	4
MAT 124M Calculus 1 *1	4			COS 105 Object-Oriented Design and Programming	4
GES 125 Introduction to the Creative Arts	4			GES 130 Christianity Western Culture	4
GES 140 Introduction to Wellbeing	2			BIB 101 Introduction to the Bible	3
	13		**3**		**15**
SECOND YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 223 Multivariable Calculus	3	Elective	3	MAT 211 Linear Algebra	3
MAT 241 Discrete Mathematics	3			MAT 222 Differential Equations *4	3
Laboratory Science (D) course	4			THE 201 Christian Theology	3
Contemporary Western Life and Thought (L) course	3			Second Language (S) course *2	4
Elective	3				
	16		**3**		**13**
THIRD YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 330 Probability and Statistics	3	Comparative Systems (G) course	3	MAT 310 Abstract Algebra	4
Applied Math course *3	4			Applied Math course *3	3
World Cultures (U) course	3			Artistic Experience (A) course	0-3
Cross-Cultural Experience (Z) course	0-3			Science, Technology, and Society (K) course	3
Elective	3			Elective	3
	13-16		**3**		**13-16**
FOURTH YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 422 Real Analysis	3	MAT 499 Senior Seminar	3	MAT 425 Topics in Mathematics (spring, odd # years)	3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Electives	9			Electives	6
	15		**3**		**12**
Total Credits 122-128					

*1. This program assumes students will use MAT 124M to meet the General Education Mathematics (M) course requirement.

*2 Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

*3 Applied Math choices (choose two): MAT 300 Numerical Analysis (spring, odd years), MAT 309 Financial Math (fall, even years), MAT 376 Operations Research (fall, odd years), or MAT 331 Applied Statistics (spring, even years).

*4 MAT 224 can be used in place of MAT 222, but not in place of MAT 211.

Most financial aid packages stipulate 12 credits/term; Minnesota state grants are reduced when credit load falls below 15 credits/semester. January Session credits are counted as part of Spring Term.

B.A. in Mathematics 2023-2024: Option 2 - Humanities

FIRST YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
COS 100 Introduction to Programming or COS 205 Scientific Computing	3	GES 147 Humanities II: Renaissance and Reformation	4	COS 105 Object-Oriented Design and Programming	4
MAT 124M Calculus 1 *1	4			MAT 125 Calculus 2	4
GES 140 Introduction to Wellbeing	2			GES 244 Humanities III: European Enlightenment and American Culture to 1877	4
GES 145 Humanities I: Greco-Roman through Middle Ages	4				
	13		**4**		**12**
SECOND YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 223 Multivariable Calculus	3	BIB 101 Introduction to the Bible	3	MAT 211 Linear Algebra	3
MAT 241 Discrete Mathematics	3			MAT 222 Differential Equations *4	3
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			Artistic Experience (A) course	0-3
Laboratory Science (D) course	4			Second Language (S) course *2	4
				Elective	3
	14		**3**		**13-16**
THIRD YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 330 Probability and Statistics	3	Comparative Systems (G) course	3	MAT 310 Abstract Algebra	4
Applied Math course *3	4			Applied Math course *3	3
World Cultures (U) course	3			Electives	6
Cross-Cultural Experience (Z) course	0-3				
Elective	3				
	13-16		**3**		**13**
FOURTH YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 422 Real Analysis	3	MAT 499 Senior Seminar	3	MAT 425 Topics in Mathematics (spring, odd # years)	3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Electives	9			Science, Technology, and Society (K) course	3
				Electives	6
	15		**3**		**15**
Total Credits 121-127					

*1. This program assumes students will use MAT 124M to meet the General Education Mathematics (M) course requirement.

*2 Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

*3 Applied Math choices (choose two): MAT 300 Numerical Analysis (spring, odd years), MAT 309 Financial Math (fall, even years), MAT 376 Operations Research (fall, odd years), or MAT 331 Applied Statistics (spring, even years).

*4 MAT 224 can be used in place of MAT 222, but not in place of MAT 211.

Most financial aid packages stipulate 12 credits/term; Minnesota state grants are reduced when credit load falls below 15 credits/semester. January Session credits are counted as part of Spring Term.

B.A. in Mathematics 2023-2024: Sample plan entering with AA Degree

FIRST YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
COS 100 Introduction to Programming or COS 205 Scientific Computing	3			MAT 125 Calculus 2	4
MAT 124M Calculus 1	4			COS 105 Object-Oriented Design and Programming	4
GES 130 Christianity Western Culture	4			Elective	3
BIB 101 Introduction to the Bible *2 [1]	3			MAT 241 Discrete Mathematics [2]	3
	14				**14**
SECOND YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 223 Multivariable Calculus	3			MAT 211 Linear Algebra	3
MAT 330 Probability and Statistics [3]	3			MAT 222 Differential Equations *4	3
				Applied Math course *3	3
	6 [4]				**9 [5]**
THIRD YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
Applied Math course *3	3			MAT 310 Abstract Algebra	4
Contemporary Christian Issues (P) course [6]	3			MAT 425 Topics in Mathematics (spring, odd # years)	3
	6 [7]				**7 [8]**
FOURTH YEAR					
Fall	**Credits**	**January Session**	**Credits**	**Spring**	**Credits**
MAT 422 Real Analysis [9]	3	MAT 499 Senior Seminar [10]	3		
	3 [11]		**3**		
Total Credits: 62 at Bethel + 60 in AA degree = 122					

*2. Must take one Biblical Foundations courses at Bethel

*3 Applied Math choices (choose two): MAT 300 Numerical Analysis (spring, odd years), MAT 309 Financial Math (fall, even years), MAT 376 Operations Research (fall, odd years), or MAT 331 Applied Statistics (spring, even years).

*4 MAT 224 can be used in place of MAT 222, but not in place of MAT 211.

*5 If student wants to be full-time, they need to reach 12 credits a semester. They'll need to add a minor in order to reach full-time standing in certain semesters, since major courses are highly sequential. Since the student will already reach the required 122 credits for graduation with their major requirements (and one elective in semester 2), they cannot just take random courses if it is not in their Course Program of Study.

Most financial aid packages stipulate 12 credits/term; Minnesota state grants are reduced when credit load falls below 15 credits/semester. January Session credits are counted as part of Spring Term.

[1] fall, interim, spring

[2] fall, spring
Preq: MAT 124M with C- or higher

[3] fall
Preq: MAT 125 with C- or higher

[4] see *5

[5] see *5

[6] fall, interim, spring, occ. summer
Preq.: GES140, GES160, THE201, & G course, Senior standing

[7] see *5

[8] see *5

[9] fall
Preq: MAT 223 w/ C- or higher & MAT 310 w/ C- or higher

[10] interim
Preq: MAT 330 w/ C- or higher & one of the following: MAT 310 w/ C- or higher, MAT 422 w/ C- or higher

[11] see *5