B.A. in Mathematics with Education 5-12 Licensure 2018-2019: Option 1 - CWILT

First Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT 124M Calculus 1	4	GES 160 Inquiry Seminar	3	MAT 125 Calculus 2	4
GES 130 Christianity Western Culture	4			BIB 101 Introduction to the Bible	3
COS 100 Introduction to Programming	3			GES 125 Introduction to the Creative Arts	4
GES 140 Introduction to Wellbeing	3			Laboratory Science (D) course	4
	14		3		15

Second Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT 223 Multivariable Calculus	3	EDU 2002 Introduction to Education	3	MAT 211 Linear Algebra	3
MAT 241 Discrete Mathematics	3	EDU 201 Introduction to Education Field Experience	1	COS 105 Computer Science 1	4
THE 201 Christian Theology	3			EDU 203 School Health and Drugs	2
Second Language (S) course	4			World Cultures (U) course*3	3
Leisure and Lifetime Sports (Q) course	1			Contemporary Western Life and Thought (L) course	3
	14		4		15

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
Math choice: MAT344 (fall), MAT376 (fall, odd years), MAT331 (spring, even years) , Operations Research, Applied Statistics	3-4	Interpreting Biblical Themes (J) course	3	MAT 310 Algebraic Structures	4
MAT 330 Probability and Statistics	3			EDU 220 Introduction to Middle Level Education	3
EDU 240 Educational Psychology	3			EDU 320 Pedagogy and the Young Adolescent Learner	1
EDU 241 Educational Psychology Field Experience	1			EDU 321 Integrated Literacy in the Content Areas	1
Artistic Experience (A) course	0-3			EDU 317GZ Educational Equity	3
Science, Technology, and Society (K) course	3				
	13-17		3		12

Fourth Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT 422 Real Analysis	3	MAT 499 Foundations of Mathematics	3	EDU 490 Student Teaching Block	14
EDU 411 Mathematics Education Practicum in grades 5-8 or 5-12	1				
MAT 376 Operations Research	4				
EDU 412 Methods in Teaching 5-12 Mathematics	3				
Contemporary Christian Issues (P) course	3				
	14		3		14

Total Credits 124-128

1. Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)
2. See education section in catalog for testing requirements.
3. The Education Department offers an interim trip that meets the U requirement - EDU 236UZ. See Education Abroad options.
This program assumes a student will use MAT 124M and EDU 317GZ to meet the general education Mathematics and Comparative Systems requirements.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit load falls below 15 credits/semester. (Interim credits may be split between fall and spring for state grant purposes only.)

B.A. in Mathematics with Education 5-12 Licensure 2018-2019: Option 2 - Humanities

First Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT 124M Calculus 1	4	GES 147 Humanities II: Renaissance and Reformation	4	MAT 125 Calculus 2	4
GES 145 Humanities I: Greco-Roman through Middle Ages	4			GES 244 Humanities III: European Enlightenment and American Culture to 1877	4
COS 100 Introduction to Programming	3			Leisure and Lifetime Sports (Q) course	1
BIB 101 Introduction to the Bible	3			GES 140 Introduction to Wellbeing	3
	14		4		12

Second Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT 223 Multivariable Calculus	3	EDU 2002 Introduction to Education	3	MAT 211 Linear Algebra	3
MAT 241 Discrete Mathematics	3	EDU 201 Introduction to Education Field Experience	1	COS 105 Computer Science 1	4
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			EDU 203 School Health and Drugs	2
Secondary Language (S) Course*1	4			Laboratory Science (D) Course	4
	14		4		13

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT 330 Probability and Statistics	3	Interpreting Biblical Themes (J) course	3	MAT 310 Algebraic Structures	4
MAT 351 (fall, even years) Modern Geometry	3			EDU 220 Introduction to Middle Level Education	3
EDU 240 Educational Psychology	3			EDU 320 Pedagogy and the Young Adolescent Learner	1
EDU 241 Educational Psychology Field Experience	1			EDU 321 Integrated Literacy in the Content Areas	1
World Cultures (U) course*3	3			EDU 317GZ Educational Equity	3
Artistic Experience (A) course	0-3			Science, Technology, and Society (K) course	3
	13-16		3		15

Fourth Year

Fall	Credits	Interim	Credits	Spring	Credits
Math choice: MAT344 (fall), MAT376 (fall, odd years), MAT331 (spring, even years) , Operations Research, Applied Statistics	3	MAT 499 Foundations of Mathematics	3	EDU 490 Student Teaching Block	14
MAT 422 Real Analysis	3				
EDU 411 Mathematics Education Practicum in grades 5-8 or 5-12	1				
EDU 412 Methods in Teaching 5-12 Mathematics	3				
Contemporary Christian Issues (P) course	3				
	13		3		14

Total Credits 122-125

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

2. See Education section in catalog for testing requirements.

3. The Education Department offers an interim trip that meets the U requirement - EDU 236UZ. See Education Abroad options.

This program assumes a student will use MAT 124M and EDU 317GZ to meet the general education Mathematics and Comparative Systems requirements.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit load falls below 15 credits/semester. (Interim credits may be split between fall and spring for state grant purposes only.)