B.A. in Mathematics with Education 5-12 Licensure 2016-2017: Option 1 - CWILT

First Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT124M Calculus *1	4	Nature of Persons (N) course	3	MAT125 Calculus *2	4
GES106 Introduction to Liberal Arts	1			BIB101 Introduction to the Bible	3
GES130 Christianity Western Culture	4			GES125 Introduction to the Creative Arts	4
COS100 Introduction to Programming	3			PEA100 Physical Wellness for Life	1
GES110 College Writing	3			Laboratory Science (D) course	4
	15		3		16

Second Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT223 Multivariable Calculus	3	EDU200 Introduction to Education *2	3	MAT211 Linear Algebra	3
MAT241 Discrete Mathematics	3	EDU201 Introduction to Education Field Experience	1	COS105 Computer Science *1	4
THE201 Christian Theology	3			EDU203 School Health and Drugs	2
Leisure and Lifetime Sports (Q) course	1			Contemporary Western Life and Thought (L) course	3
Second Language (S) course *1	4			World Cultures (U) course *3	3
	14		4		15

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT351 (fall, even years)	3	Interpreting Biblical Themes (J) course	3	MAT310 Algebraic Structures	4
MAT330 Probability and Statistics	3			EDU220 Introduction to Middle Level Education	3
EDU240 Educational Psychology	3			EDU320 Pedagogy and the Young Adolescent Learner	1
EDU241 Educational Psychology Field Experience	1			EDU321 Integrated Literacy in the Content Areas	1
Science, Technology, and Society (K) course	3			EDU317GZ Educational Equity	3
Artistic Experience (A) course	0-3				
	13-16		3		12

Fourth Year

Fall	Credits	Interim	Credits	Spring	Credits
Math choice: MAT344 (fall), MAT376 (fall, odd years), MAT331 (spring, even years)	3	MAT499 Foundations of Mathematics	3	EDU490 Student Teaching Block	14
MAT422 Real Analysis	3				
EDU411 Mathematics Education Practicum in grades 5-8 or 5-12	1				
EDU412 Methods in Teaching 5-12 Mathematics	3				
Contemporary Christian Issues (P) course	3				
	13		3		14

Total Credits: 125-128

*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 MN basic skills tests (MTLE) are required for full admission to the Education Department.

*3 The Education Department offers interim trips that meet the U requirement - EDU236UZ or EDU204UZ. See Education Abroad options.

Because of possible double counting between General Education and the major, the actual credit total can be reduced to 122.

This program assumes a student will use MAT124M and EDU317GZ 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 2016-2017: Option 2 - Humanities

First Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT124M Calculus *1	4	GES147 Humanities II: Renaissance and Reformation	4	MAT125 Calculus 2	4
GES106 Introduction to Liberal Arts	1			GES244 Humanities III: European Enlightment and American Culture to 1877	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			PEA100 Physical Wellness for Life	1
COS100 Introduction to Programming	3			Laboratory Science (D) course	4
BIB101 Introduction to the Bible	3			Leisure and Lifetime Sports (Q) course	1
	15		4		14

Second Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT223 Multivariable Calculus	3	EDU200 Introduction to Education *2	3	MAT211 Linear Algebra	3
MAT241 Discrete Mathematics	3	EDU201 Introduction to Education Field Experience	1	COS105 Computer Science *1	4
Second Language (S) course *1	4			EDU203 School Health and Drugs	2
GES246 Humanities IV: Modern and Contemporary Western Culture	4			Nature of Persons (N) course	3
	14		4		12

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
MAT330 Probability and Statistics	3	Interpreting Biblical Themes (J) course	3	MAT310 Algebraic Structures	4
MAT351 (fall, even years)	3			EDU220 Introduction to Middle Level Education	3
EDU240 Educational Psychology	3			EDU320 Pedagogy and the Young Adolescent Learner	1
EDU241 Educational Psychology Field Experience	1			EDU321 Integrated Literacy in the Content Areas	1
World Cultures (U) course *3	3			EDU317GZ 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)	3	MAT499 Foundations of Mathematics	3	EDU490 Student Teaching Block	14
MAT422 Real Analysis	3				
EDU411 Mathematics Education Practicum in grades 5-8 or 5-12	1				
EDU412 Methods in Teaching 5-12 Mathematics	3				
Contemporary Christian Issues (P) course	3				
	13		3		14

Total Credits: 124-127

*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 MN basic skills tests (MTLE) are required for full admission to the Education Department.

*3 The Education Department offers interim trips that meet the U requirement - EDU236UZ or EDU204UZ. See Education Abroad options.

Because of possible double counting between General Education and the major, the actual credit total can be reduced to 122.

This program assumes a student will use MAT124M and EDU317GZ 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.)