

B.A. in Mathematics with Education 5-12 Enhanced Academic Plan

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

Recommended Courses				
Fall Semester 1	Interim Semester 1	Spring Semester 1	Career Planning and Preparation	R.E.A.L. Experience
MAT 124M Calculus 1	GES 160 Inquiry Seminar	MAT 125 Calculus 2	PHASE 1: EXPLORE	Create your R.E.A.L. Portfolio
GES 130 Christianity Western Culture		BIB 101 Introduction to the Bible	<i>Explore self, careers, & God's call</i>	Consider joining a club or ministry of interest
COS 100 Introduction to Programming		GES 125 Introduction to the Creative Arts	Take a Career Assessment	Consider finding a mentor
GES 140 Introduction to Wellbeing		Laboratory Science (D) course	Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums	
			Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering	
14	3	15		

MILESTONES: Consider study abroad options

Recommended Courses				
Fall Semester 2	Interim Semester 2	Spring Semester 2	Career Planning and Preparation	R.E.A.L. Experience
MAT 223 Multivariable Calculus	EDU 2002 Introduction to Education	MAT 211 Linear Algebra	PHASE 1&2: EXPLORE/EXPERIENCE	Continue adding artifacts and reflections to your R.E.A.L. Portfolio.
MAT 241 Discrete Mathematics	EDU 201 Introduction to Education Field Experience	COS 105 Computer Science 1	<i>Finalize major if necessary & begin gaining experience</i>	Consider taking a leadership position with a student club.
THE 201 Christian Theology		EDU 203 School Health and Drugs	Create/update Resume & LinkedIn	Consider going on a spring break mission trip.
Second Language (S) course		World Cultures (U) course*3	Build professional network (e.g. informational interviews)	
Leisure and Lifetime Sports (Q) course		Contemporary Western Life and Thought (L) course	Attend Spring Career Fair	
14	4	15	Obtain Internship or relevant job by summer	

MILESTONES: Consider doing an online course over the summer

Recommended Courses				
Fall Semester 3	Interim Semester 3	Spring Semester 3	Career Planning and Preparation	R.E.A.L. Experience
Math choice: MAT344 (fall), MAT376 (fall, odd years), MAT331 (spring, even years) , Operations Research, Applied Statistics	Interpreting Biblical Themes (J) course	MAT 310 Algebraic Structures	PHASE 2: EXPERIENCE	Review your R.E.A.L. Portfolio and prepare to make it public.
MAT 330 Probability and Statistics		EDU 220 Introduction to Middle Level Education	<i>Use experineces to narrow down career choice & develop relevant skills</i>	Consider studying abroad.
EDU 240 Educational Psychology		EDU 320 Pedagogy and the Young Adolescent Learner	Participate in Fall & Spring Recruiting to obtain an internship	Consider applying for a Student Leadership Position in Student Life.
EDU 241 Educational Psychology Field Experience		EDU 321 Integrated Literacy in the Content Areas	Schedule a Mock Interview	Consider being a TA for a favorite class.
Artistic Experience (A) course		EDU 317GZ Educational Equity	Explore Grad Schools & Take Entrance Exams (e.g. GRE) if necessary	
Science, Technology, and Society (K) course			Expand Professional Network	
13-17	3	12		

MILESTONES: A minimum 3.2 GPA in your major is a good goal to strive for

Recommended Courses				
Fall Semester 4	Interim Semester 4	Spring Semester 4	Career Planning and Preparation	R.E.A.L. Experience
MAT 422 Real Analysis	MAT 499 Foundations of Mathematics	EDU 490 Student Teaching Block	PHASE 3: EXECUTE	Continue updating your public R.E.A.L. Portfolio with relevant experiences and reflection.
EDU 411 Mathematics Education Practicum in grades 5-8 or 5-12			<i>Execute an effective job or grad school search</i>	Consider mentoring an underclassman.
MAT 376 Operations Research			Participate in Fall and Spring Recruiting	
EDU 412 Methods in Teaching 5-12 Mathematics			Apply for Graduate School if necessary	
Contemporary Christian Issues (P) course			Expand Professional Network	
14	3	14		

Total Credits: 124-128

1. Students must competes through the second semester of a first year language course or equivalent. A student may not take LIN300 until the language sequence is complete. LIN300 is a fall-only course.

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 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 Enhanced Academic Plan

B.A. in Mathematics with Education 5-8 (2018-2019): Option 2 - Humanities

Recommended Courses				
Fall Semester 1	Interim Semester 1	Spring Semester 1	Career Planning and Preparation	R.E.A.L. Experience
MAT 124M Calculus 1	GES 147 Humanities II: Renaissance and Reformation	MAT 125 Calculus 2	PHASE 1: EXPLORE	Create your R.E.A.L. Portfolio
GES 145 Humanities I: Greco-Roman through Middle Ages		GES 244 Humanities III: European Enlightenment and American Culture to 1877	<i>Explore self, careers, & God's call</i>	Consider joining a club or ministry of interest
COS 100 Introduction to Programming		Leisure and Lifetime Sports (Q) course	Take a Career Assessment	Consider finding a mentor
BIB 101 Introduction to the Bible		GES 140 Introduction to Wellbeing	Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums	
14	4	12	Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering	

MILESTONES: Consider study abroad options

Recommended Courses				
Fall Semester 2	Interim Semester 2	Spring Semester 2	Career Planning and Preparation	R.E.A.L. Experience
MAT 223 Multivariable Calculus	EDU 2002 Introduction to Education	MAT 211 Linear Algebra	PHASE 1&2: EXPLORE/EXPERIENCE	Continue adding artifacts and reflections to your R.E.A.L. Portfolio.
MAT 241 Discrete Mathematics	EDU 201 Introduction to Education Field Experience	COS 105 Computer Science 1	<i>Finalize major if necessary & begin gaining experience</i>	Consider taking a leadership position with a student club.
GES 246 Humanities IV: Modern and Contemporary Western Culture		EDU 203 School Health and Drugs	Create/update Resume & LinkedIn	Consider going on a spring break mission trip.
Secondary Language (S) Course*1		Laboratory Science (D) Course	Build professional network (e.g. informational interviews)	
			Attend Spring Career Fair	
14	4	13	Obtain Internship or relevant job by summer	

MILESTONES: Consider doing an online course over the summer

Recommended Courses				
Fall Semester 3	Interim Semester 3	Spring Semester 3	Career Planning and Preparation	R.E.A.L. Experience
MAT 330 Probability and Statistics	Interpreting Biblical Themes (J) course	MAT 310 Algebraic Structures	PHASE 2: EXPERIENCE	Review your R.E.A.L. Portfolio and prepare to make it public.
MAT 351 (fall, even years) Modern Geometry		EDU 220 Introduction to Middle Level Education	<i>Use experiences to narrow down career choice & develop relevant skills</i>	Consider studying abroad.
EDU 240 Educational Psychology		EDU 320 Pedagogy and the Young Adolescent Learner	Participate in Fall & Spring Recruiting to obtain an internship	Consider applying for a Student Leadership Position in Student Life.
EDU 241 Educational Psychology Field Experience		EDU 321 Integrated Literacy in the Content Areas	Schedule a Mock Interview	Consider being a TA for a favorite class.
World Cultures (U) course*3		EDU 317GZ Educational Equity	Explore Grad Schools & Take Entrance Exams (e.g. GRE) if necessary	
Artistic Experience (A) course		Science, Technology, and Society (K) course		
13-16	3	15	Expand Professional Network	

MILESTONES: A minimum 3.2 GPA in your major is a good goal to strive for

Recommended Courses				
Fall Semester 4	Interim Semester 4	Spring Semester 4	Career Planning and Preparation	R.E.A.L. Experience
Math choice: MAT344 (fall), MAT376 (fall, odd years), MAT331 (spring, even years), Operations Research, Applied Statistics MAT 422 Real Analysis	MAT 499 Foundations of Mathematics	EDU 490 Student Teaching Block	PHASE 3: EXECUTE	Continue updating your public R.E.A.L. Portfolio with relevant experiences and reflection.
EDU 411 Mathematics Education Practicum in grades 5-8 or 5-12			<i>Execute an effective job or grad school search</i>	Consider mentoring an underclassman.
EDU 412 Methods in Teaching 5-12 Mathematics			Participate in Fall and Spring Recruiting	
Contemporary Christian Issues (P) course			Apply for Graduate School if necessary	
			Expand Professional Network	
13	3	14		

Total Credits: 122-125

1. Students must complete through the second semester of a first year language course or equivalent. A student may not take LIN300 until the language sequence is complete. LIN300 is a fall-only course.

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 falls below 15 credits/semester. (Interim credits may be split between fall and spring for state grant purposes only.)