B.S. in Mathematics and Data Science 2017-2018: Option 1- CWILT

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First Year			
Fall	Credits Interim	Credits Spring	Credits
COS100 Introduction to Programming	3 <u>GES160 Inquiry Seminar</u>	3 COS105 Computer Science 1	4
MAT124M Calculus 1 *1	4	BIB101 Introduction to the Bible	3
GES140 Introduction to Wellbeing	3	GES130 Christianity Western Culture	4
GES125 Introduction to the Creative Arts	4	MAT125 Calculus 2	4
	14	3	15
Second Year			
Fall	Credits Interim	Credits Spring	Credits
MAT223 Multivariable Calculus	3 Contemporary Western Life and Thought (L) course	3 MAT211 Linear Algebra	3
MAT241 Discrete Mathematics	3	MAT222 Differential Equations	3
COS212 Computer Science 2	4	COS216 Data Structures and Algorithms	3
<u>Laboratory Science (D) course</u>	4	THE201 Christian Theology	3
		Second Language (L) course ²	4
	14	3	16
Third Year			
Fall	Credits Interim	Credits Spring	Credits
MAT330 Probability and Statistics	3 Interim Off	MAT310 Algebraic Structures	4
MAT344 Numerical Methods	3	MAT331 Applied Statistics	3
MAT376 Operations Research	4	COS334 Data Mining	3
World Cultures (U) course	3	Science, Technology, and Society (K) course	3
Cross-Cultural Experience (Z) course	0-3	Artistic Experience (A) course	0-3
	13-16	0	13-16
Fourth Year			
Fall	Credits Interim	Credits Spring	Credits
MAT422 Real Analysis	3 MAT499 Foundations of Mathematics	3 MAT425 Topics in Mathematics	3
COS313 Database Systems	3	BUS317 Business Analytics	4
Interpreting Biblical Themes (J) course	3	Contemporary Christian Issues (P) course	3
Comparative Systems (G) course	3	Leisure and Lifetime Sport (Q) course	1
Electives	3	Electives	3
	15	3	14
Total Credits: 123-129			

^{*1.} This program assumes students will use MAT124M to meet the general education Mathematics requirement.

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.

^{*2.} Students must complete through the second semester of a first year language course or equivalent (check the catalog for details).

B.S. in Mathematics and Data Science 2017-2018: Option 2- Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
COS100 Introduction to Programming	3 (GES147 Humanities II: Renaissance and Reformation	4	BIB101 Introduction to the Bible	3
MAT124M Calculus 1 *1	4			COS105 Computer Science 1	4
GES140 Introduction to Wellbeing	3			MAT125 Calculus 2	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			GES244 Humanities III: European Enlightenment and An Culture to 1877	nerican 4
	14		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
MAT223 Multivariable Calculus	3 ا	Laboratory Science (D) course	4	MAT211 Linear Algebra	3
MAT241 Discrete Mathematics	3			MAT222 Differential Equations	3
COS212 Computer Science 2	4			COS216 Data Structures and Algorithms	3
GES246 Humanities IV: Modern and Contemporary Western	4			Second Language (S) course ²	4
Culture					
	14		4		13
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
MAT330 Probability and Statistics	3 1	Interim Off		MAT310 Algebraic Structures	4
MAT344 Numerical Methods	3			MAT331 Applied Statistics	3
MAT376 Operations Research	4			COS334 Data Mining	3
World Cultures (U) course	3			Science, Technology, and Society (K) course	3
Cross-Cultural Experience (Z) course	0-3			Artistic Experience (A) course	0-3
	13-16		0		13-16
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
MAT422 Real Analysis	3 <u>I</u>	MAT499 Foundations of Mathematics	3	MAT425 Topics in Mathematics	3
COS313 Database Systems	3			BUS317 Business Analytics	4
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Comparative Systems (G) course	3			Leisure and Lifetime Sports (Q) course	1
Electives	3			Electives	3
	15		3		14
Total Credits: 122-128					

^{*1.} This program assumes students will use MAT124M to meet the general education Mathematics requirement.

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.

^{*2.} Students must complete through the second semester of a first year language course or equivalent (check the catalog for details).