B.S. in Mathematics and Data Science 2018-2019: Option 1- CWILT

First Year Fall	Crodite	Interim	Credits	Spring	Credits
COS 100 Introduction to Programming		GES 160 Inquiry Seminar		COS 105 Computer Science 1	Creuits
MAT 124M*1 Calculus 1	3			BIB 101 Introduction to the Bible	
GES 140 Introduction to Wellbeing	3			GES 130 Christianity Western Culture	
GES 125 Introduction to the Creative Arts	4	•		MAT 125 Calculus 2	4
GES 125 Introduction to the creative Arts	14		3	MAT 125 Calculus 2	15
Second Year	14		3		10
Fall	Cradita	Interim	Credits	Carina	Credits
MAT 223 Multivariable Calculus		Contemporary Western Life and Thought (L) course			Credits
MAT 223 Multivariable Calculus	3			MAT 211 Linear Algebra	
	3			MAT 222 Differential Equations	3
COS 212 Computer Science 2	4			COS 216 Data Structures and Algorithms	3
Laboratory Science (D) course	4			THE 201 Christian Theology	3
				Second Language (S) course*2	4
	14		3		16
Third Year			-		
Fall		Interim	Credits		Credits
MAT 330 Probability and Statistics		Interim Off		MAT 310 Algebraic Structures	4
COS 313 Database Systems	3			MAT 344 Numerical Methods	3
Science, Technology, and Society (K) course	3			BUS 317 Business Analytics	4
World Cultures (U) course	3			Artistic Experience (A) course	0-3
Cross-Cultural Experience (Z) course	0-3			Elective	3
	12-15		0		14-17
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
MAT 422 Real Analysis	3	MAT 499 Foundations of Mathematics	3	MAT 331 Applied Statistics	
Interpreting Biblical Themes (J) course	3			Electives	6
Comparative Systems (G) course	3			COS 334 Data Mining and Machine Learning	3
MAT 376 Operations Research	4			Contemporary Christian Issues (P) course	3
	·			Leisure and Lifetime Sport (Q) course	1
	13		3	· · · ·	16

Total Credits 123-129

1. This program assumes students will use MAT 124M to meet the general education Mathematics requirement.

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

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.S. in Mathematics and Data Science 2018-2019: Option 2- Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credite
COS 100 Introduction to Programming	3	GES 147 Humanities II: Renaissance and Reformation	4	BIB 101 Introduction to the Bible	:
MAT 124M*1 Calculus 1	4			COS 105 Computer Science 1	4
GES 140 Introduction to Wellbeing	3			MAT 125 Calculus 2	4
GES 145 Humanities I: Greco-Roman through Middle	4			GES 244 Humanities III: European Enlightenment and	2
Ages				American Culture to 1877	
	14		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
MAT 223 Multivariable Calculus	3	Laboratory Science (D) course	4	MAT 211 Linear Algebra	3
MAT 241 Discrete Mathematics	3			MAT 222 Differential Equations	3
COS 212 Computer Science 2	4			COS 216 Data Structures and Algorithms	3
GES 246 Humanities IV: Modern and Contemporary	4			Second Language (S) course*2	4
Western Culture					
	14		4		13
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
MAT 330 Probability and Statistics	3	Interim Off		MAT 310 Algebraic Structures	4
COS 313 Database Systems	3			MAT 344 Numerical Methods	3
Science, Technology, and Society (K) course	3			Elective	3
World Cultures (U) course	3			BUS 317 Business Analytics	4
Cross-Cultural Experience (Z) course	0-3			Artistic Experience (A) course	0-3
	12-15		0		14-17
Fourth Year			-		
Fall	Credits	Interim	Credits	Spring	Credits
MAT 376 Operations Research	4	MAT 499 Foundations of Mathematics	3	MAT 331 Applied Statistics	3
MAT 422 Real Analysis	3			Electives	6
Interpreting Biblical Themes (J) course	3			COS 334 Data Mining and Machine Learning	3
Comparative Systems (G) course	3			Contemporary Christian Issues (P) course	3
				Leisure and Lifetime Sports (Q) course	1
	13		3		16

Total Credits 122-128

1. This program assumes students will use MAT 124M to meet the general education Mathematics requirement.

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