

# B.S. in Mathematics and Data Science 2019-2020: Option 1- CWILT

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">COS 100 Introduction to Programming</a>	3	<a href="#">GES 160 Inquiry Seminar</a>	3	<a href="#">COS 105 Computer Science 1</a>	4
<a href="#">MAT 124M1 Calculus 1</a>	4			<a href="#">BIB 101 Introduction to the Bible</a>	3
<a href="#">GES 140 Introduction to Wellbeing</a>	3			<a href="#">GES 130 Christianity Western Culture</a>	4
<a href="#">GES 125 Introduction to the Creative Arts</a>	4			<a href="#">MAT 125 Calculus 2</a>	4
	<b>14</b>		<b>3</b>		<b>15</b>
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">MAT 223 Multivariable Calculus</a>	3	Contemporary Western Life and Thought (L) course	3	<a href="#">MAT 211 Linear Algebra</a>	3
<a href="#">MAT 241 Discrete Mathematics</a>	3			<a href="#">MAT 222 Differential Equations</a>	3
<a href="#">COS 212 Computer Science 2</a>	4			<a href="#">COS 216 Data Structures and Algorithms</a>	3
Laboratory Science (D) course	4			<a href="#">THE 201 Christian Theology</a>	3
				Second Language (S) course <sup>2</sup>	4
	<b>14</b>		<b>3</b>		<b>16</b>
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">MAT 330 Probability and Statistics</a>	3	Interim Off		<a href="#">MAT 310 Algebraic Structures</a>	4
MAT 376 Operations Research	4			<a href="#">MAT 344 Numerical Methods</a>	3
Science, Technology, and Society (K) course	3			MAT 331 Applied Statistics	3
World Cultures (U) course	3			<a href="#">COS 334 Data Mining and Machine Learning</a>	3
Cross-Cultural Experience (Z) course	0-3			Artistic Experience (A) course	0-3
	<b>13-16</b>		<b>0</b>		<b>13-17</b>
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 313 Database Systems	3	<a href="#">MAT 499 Foundations of Mathematics</a>	3	BUS 317 Business Analytics	4
<a href="#">MAT 422 Real Analysis</a>	3			Electives	6
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Comparative Systems (G) course	3			Leisure and Lifetime Sports (Q) course	1
Elective	3				
	<b>15</b>		<b>3</b>		<b>14</b>
<b>Total Credits 123-130</b>					

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 2019-2020: Option 2- Humanities

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">COS 100 Introduction to Programming</a>	3	<a href="#">GES 147 Humanities II: Renaissance and Reformation</a>	4	<a href="#">BIB 101 Introduction to the Bible</a>	3
<a href="#">MAT 124M1 Calculus 1</a>	4			<a href="#">COS 105 Computer Science 1</a>	4
<a href="#">GES 140 Introduction to Wellbeing</a>	3			<a href="#">MAT 125 Calculus 2</a>	4
<a href="#">GES 145 Humanities I: Greco-Roman through Middle Ages</a>	4			<a href="#">GES 244 Humanities III: European Enlightenment and American Culture to 1877</a>	4
	<b>14</b>		<b>4</b>		<b>15</b>
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">MAT 223 Multivariable Calculus</a>	3	Laboratory Science (D) course	4	<a href="#">MAT 211 Linear Algebra</a>	3
<a href="#">MAT 241 Discrete Mathematics</a>	3			<a href="#">MAT 222 Differential Equations</a>	3
<a href="#">COS 212 Computer Science 2</a>	4			<a href="#">COS 216 Data Structures and Algorithms</a>	3
<a href="#">GES 246 Humanities IV: Modern and Contemporary Western Culture</a>	4			Second Language (S) course <sup>2</sup>	4
	<b>14</b>		<b>4</b>		<b>13</b>
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">MAT 330 Probability and Statistics</a>	3	Interim Off		<a href="#">MAT 310 Algebraic Structures</a>	4
<a href="#">MAT 376 Operations Research</a>	4			<a href="#">MAT 344 Numerical Methods</a>	3
Science, Technology, and Society (K) course	3			<a href="#">MAT 331 Applied Statistics</a>	3
World Cultures (U) course	3			<a href="#">COS 334 Data Mining and Machine Learning</a>	3
Cross-Cultural Experience (Z) course	0-3			Artistic Experience (A) course	0-3
	<b>13-16</b>		<b>0</b>		<b>13-17</b>
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">COS 313 Database Systems</a>	3	<a href="#">MAT 499 Foundations of Mathematics</a>	3	<a href="#">BUS 317 Business Analytics</a>	4
<a href="#">MAT 422 Real Analysis</a>	3			Electives	6
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Comparative Systems (G) course	3			Leisure and Lifetime Sports (Q) course	1
Elective	3				
	<b>15</b>		<b>3</b>		<b>14</b>
<b>Total Credits 122-129</b>					

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.)