

## B.S. in Computer Science 2020-2021: Option 1 - CWILT

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">COS 100</a> or <a href="#">205</a> Introduction to Programming or Scientific Computing	3	<a href="#">GES 160 Inquiry Seminar</a>	3	<a href="#">COS 105 Object-oriented Design and Programming</a>	4
<a href="#">MAT 124M Calculus 1</a>	4			<a href="#">MAT 125 Calculus 2</a>	4
<a href="#">GES 130 Christianity Western Culture</a>	4			<a href="#">BIB 101 Introduction to the Bible</a>	3
<a href="#">GES 140 Introduction to Wellbeing</a>	3			Second Language (S) course *1	4
	<b>14</b>		<b>3</b>		<b>15</b>
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">COS 212 Data Structures</a>	4	<a href="#">THE 201 Christian Theology</a>	3	<a href="#">COS 235 Computer Systems</a>	4
<a href="#">MAT 241 Discrete Mathematics</a>	3			<a href="#">COS 216 Algorithms and Advanced Data Structures</a>	3
<a href="#">GES 125 Introduction to the Creative Arts</a>	4			<a href="#">MAT 211 Linear Algebra</a>	3
Laboratory Science (D) course	4			Contemporary Western Life and Thought (L) course	3
				Elective	3
	<b>15</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="#">COS 386 Data Communications and Computer Networks</a>	3
<a href="#">COS 313 Database Systems</a>	3			<a href="#">COS 389 Artificial Intelligence</a>	3
<a href="#">COS 318 Web Programming</a>	3			Interpreting Biblical Themes (J) course	3
World Cultures (U) course	3			Cross-Cultural Experience (Z) course	0-3
Elective	3-4			Comparative Systems (G) course	3
	<b>15-16</b>		<b>0</b>		<b>12-15</b>
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
Elective	3	<a href="#">COS 450 Humans and Computers</a>	3	<a href="#">COS 371 (spring, even # years) Organization of Programming Languages</a>	3
<a href="#">COS 320 Computer Graphics Programming</a>	3			Science, Technology, and Society (K) course	3
<a href="#">COS 477 Software Engineering</a>	3			Contemporary Christian Issues (P) course	3
Leisure and Lifetime Sports (Q) course	1			Artistic Experience (A) course	0-3
Computer Algorithms and Support for Numerical	3-4			<a href="#">COS 335 Computer Security</a>	3
	<b>13-14</b>		<b>3</b>		<b>12-15</b>
<b>Total Credits 121-129</b>					

\*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. Choose one of: COS 351, MAT 376, or PHY 352/PHY 353 (Note: PHY 352/PHY 353 will require consent of instructor unless prerequisites are satisfied. Please see catalog for details.)

This program assumes a student will use [MAT 124M](#) to meet the General Education course 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.)

## B.S. in Computer Science 2020-2021: Option 2 - Humanities

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">COS 100</a> or <a href="#">205</a> Introduction to Programming or Scientific	3	<a href="#">GES 147 Humanities II: Renaissance and Reformation</a>	4	<a href="#">COS 105 Object-oriented Design and Programming</a>	4
<a href="#">MAT 124M Calculus 1</a>	4			<a href="#">MAT 125 Calculus 2</a>	4
<a href="#">GES 140 Introduction to Wellbeing</a>	3			<a href="#">GES 244 Humanities III: European Enlightenment and American</a>	4
<a href="#">GES 145 Humanities I: Greco-Roman through Middle Ages</a>	4			Second Language (S) course *1	4
	<b>14</b>		<b>4</b>		<b>16</b>
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">COS 212 Data Structures</a>	4	World Cultures (U) course	3	<a href="#">COS 235 Computer Systems</a>	4
<a href="#">MAT 241 Discrete Mathematics</a>	3			<a href="#">COS 216 Algorithms and Advanced Data Structures</a>	3
<a href="#">BIB 101 Introduction to the Bible</a>	3			<a href="#">MAT 211 Linear Algebra</a>	3
<a href="#">GES 246 Humanities IV: Modern and Contemporary Western</a>	4			Laboratory Science (D) course	4
				Leisure and Lifetime Sports (Q) course	1
	<b>14</b>		<b>3</b>		<b>15</b>
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">MAT 330 Probability and Statistics</a>	3	Interim off		<a href="#">COS 386 (Spring, odd # years)</a>	3
<a href="#">COS 313 (fall, even # years) Database Systems</a>	3			<a href="#">COS 389 (Spring, odd # years)</a>	3
<a href="#">COS 318 Web Programming</a>	3			Interpreting Biblical Themes (J) course	3
World Cultures (U) course	3			Cross-Cultural Experience (Z) course	3
Elective	3			Comparative Systems (G) course	3
	<b>15</b>		<b>0</b>		<b>15</b>
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
Elective	3	<a href="#">COS 450 Humans and Computers</a>	3	<a href="#">COS 371 (Spring, even # years)</a>	3
<a href="#">COS 320 (Fall, odd # years)</a>	3			Artistic Experience (A) course	0-3
<a href="#">COS 477 (Fall, odd # years)</a>	3			Science, Technology, and Society (K) course	3
Computer Algorithms and Support for Numerical Applications course *2	3-4			Contemporary Christian Issues (P) course	3
				COS 335 Computer Security	3
	<b>12-13</b>		<b>3</b>		<b>12-15</b>
<b>Total Credits 123-127</b>					

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\*2. Choose one of: COS 351, MAT 376, or PHY 352/PHY 353 (Note: PHY 352/PHY 353 will require consent of instructor unless prerequisites are satisfied. Please see catalog for details.)

This program assumes a student will use MAT 124M to meet the General Education course requirement.

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