B.S. in Computer Science 2017-2018: Option 1 - CWILT

First Year

Fall	Credits	Interim	Credits	Spring	Credits
COS100 or 205 Introduction to Programming or Scientific Computing	3	GES160 Inquiry Seminar	3	COS105 Computer Science 1	4
MAT124M Calculus 1	4			MAT125 Calculus 2	4
GES130 Christianity Western Culture	4			BIB101 Introduction to the Bible	3
GES140 Introduction to Wellbeing	3			Second Language (S) course[1]	4
	14		3		15

Second Year

Fall	Credits	Interim	Credits	Spring	Credits
COS212 Computer Science 2	4	THE201 Christian Theology	3	COS214 Computer Systems	4
MAT241 Discrete Mathematics	3			COS216 Data Structures and Algorithms	3
GES125 Introduction to the Creative Arts	4			MAT211 Linear Algebra	3
Laboratory Science (D) course	4			Contemporary Western Life and Thought (L) course	3
				Elective	2
	15		3		15

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
COS301 Operating Systems and Computer Architecture	4	COS450 (interim, even years) Humans and Computers	3	COS371 (spring, even years) Organization of Programming Languages	3
COS318 Web Programming	3			COS477 (spring, even years) Software Engineering	3
MAT376 (fall, odd years (or elective))2 Operations Research	4			Interpreting Biblical Themes (J) course	3
COS320 (fall, odd years) Computer Graphics Programming	3			Elective	3
World Cultures (U) course	3			Cross-Cultural Experience (Z) course	0-3
	17		3		12-15

Fourth Year

Fall	Credits	Interim	Credits	Spring	Credits
COS313 (fall, even years) Database Systems	3	Interim Off		COS386 (spring, odd years) Data Communications and Computer Networks	3
MAT330 Probability and Statistics	3			COS389 (spring, odd years) Artificial Intelligence	3
MAT344 (or elective)2 Numerical Methods	3			Science, Technology, and Society (K) course	3
Comparative Systems (G) course	3			Contemporary Christian Issues (P) course	3
Leisure and Lifetime Sports (Q) course	1			Artistic Experience (A) course	0-3
	13		0		12-15

TOTAL: 122

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: MAT344, MAT376, or PHY352/PHY353 (Note: PHY352/PHY353 will require consent of instructor unless prerequisites are satisfied. Please see catalog for details.)

This program assumes a student will use MAT124M and GES334K to meet the general education Mathematics and Science, Technology, and Society requirements.

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.)

BETHEL UNIVERSITY

B.S. in Computer Science 2017-2018: Option 2 - Humanities

First Year

Fall	Credits	Interim	Credits	Spring	Credits
COS100 or 205 Introduction to Programming or Scientific Computing	3	GES147 Humanities II: Renaissance and Reformation	4	COS105 Computer Science 1	4
MAT124M Calculus 1	4			MAT125 Calculus 2	4
GES140 Introduction to Wellbeing	3			GES244 Humanities III: European Enlightenment and American Culture to 1877	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			Second Language (S) course[1]	4
	14		4		16

Second Year

Fall	Credits	Interim	Credits	Spring	Credits
COS212 Computer Science 2	4	World Cultures (U) course	3	COS214 Computer Systems	4
MAT241 Discrete Mathematics	3			COS216 Data Structures and Algorithms	3
BIB101 Introduction to the Bible	3			MAT211 Linear Algebra	3
GES246 Humanities IV: Modern and Contemporary Western Culture	4			Laboratory Science (D) course	4
				Leisure and Lifetime Sports (Q) course	1
	14		3		15

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
COS301 Operating Systems and Computer Architecture	4	COS450 (interim, even years) Humans and Computers	3	COS371 (spring, even years) Organization of Programming Languages	3
COS318 Web Programming	3			COS477 (spring, even years) Software Engineering	3
COS320 (fall, odd years) Computer Graphics Programming	3			Interpreting Biblical Themes (J) course	3
MAT376 (fall, odd years (or elective))2 Operations Research	4			Comparative Systems (G) course	3
				Cross-Cultural Experience (Z) course	3
	14		3		15

Fourth Year

Fall	Credits	Interim	Credits	Spring	Credits
COS313 (fall, even years) Database Systems	3	Interim Off		COS386 (spring, odd years) Data Communications and Computer Networks	3
MAT330 Probability and Statistics	3			COS389 (spring, odd years) Artificial Intelligence	3
MAT344 (or elective)2Numerical Methods	3			Science, Technology, and Society (K) course	3
Elective	3			Contemporary Christian Issues (P) course	3
				Artistic Experience (A) course	0-3
	12		0		12-15

TOTAL: 122

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: MAT344, MAT376, or PHY352/PHY353 (Note: PHY352/PHY353 will require consent of instructor unless prerequisites are satisfied. Please see catalog for details.)

This program assumes a student will use MAT124M and GES334K to meet the general education Mathematics and Science, Technology, and Society requirements.

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.)