

B.A. in Computer Science 2019-2020: Option 1 - CWILT

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 100 or 205 Introduction to Programming or Scientific Computing	3	GES 160 Inquiry Seminar	3	COS 105 Computer Science 1	4
MAT 124M Calculus 1	4			GES 130 Christianity Western Culture	4
BIB 101 Introduction to the Bible	3			GES 140 Introduction to Wellbeing	3
GES 125 Introduction to the Creative Arts	4			Second Language (S) course ¹	4
	14		3		15
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 212 Computer Science 2	4	Elective	3	COS 214 Computer Architecture	4
MAT 241 Discrete Mathematics	3			COS 216 Data Structures and Algorithms	3
Laboratory Science (D) course	4			THE 201 Christian Theology	3
Contemporary Western Life and Thought (L) course	3			Cross-Cultural Experience (Z) course	0-3
				Elective	3
	14		3		15
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 318 *2 Web Programming	3	COS 450 (interim, even # years) Humans and Computers	3	COS 334 (spring, even # years) *2 Data Mining and Machine Learning	3
COS 301 Operating Systems	4			Computer Science Elective	3
World Cultures (U) course	3			Comparative Systems (G)	3
Science, Technology, and Society (K) course	3			Artistic Experience (A) course	0-3
Leisure and Lifetime Sports (Q) course	1			Elective	3
	14		3		12-15
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 313 (fall, even years (or elective)) *2 Database Systems	3	Interim Off		COS 386 (spring, odd years (or Elective)) *2 Data Communications and Computer Networks	3
Computer Science elective	3			Computer Science Elective	3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Electives	6			Electives	6
	15		0		15
Total Credits 123-126					

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 two from: [COS 313](#), [COS 318](#), [COS 386](#), [COS 334](#) (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.A. in Computer Science 2019-2020: Option 2 - Humanities

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 100 or 205 Introduction to Programming or Scientific Computing	3	GES 147 Humanities II: Renaissance and Reformation	4	COS 105 Computer Science 1	4
MAT 124M Calculus 1	4			GES 244 Humanities III: European Enlightenment and American Culture to 1877	4
GES 140 Introduction to Wellbeing	3			BIB 101 Introduction to the Bible	3
GES 145 Humanities I: Greco-Roman through Middle Ages	4			Second Language (S) course ¹	4
	14		4		15
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 212 Computer Science 2	4	Elective	3	COS 214 Computer Architecture	4
MAT 241 Discrete Mathematics	3			COS 216 Data Structures and Algorithms	3
Laboratory Science (D) course	4			Electives	6
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			Cross-Cultural Experience (Z) course	0-3
	15		3		15
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 318 *2 Web Programming	3	COS 450 (Interim, even # years) Humans and Computers	3	Computer Science Elective	3
COS 301 Operating Systems	4			Comparative Systems (G)	3
COS 477 Software Engineering	3			COS 334 *2 Data Mining and Machine Learning	3
World Cultures (U) course	3			Elective	3
Science, Technology, and Society (K) course	3			Artistic Experience (A) course	0-3
Leisure and Lifetime Sports (Q) course	1				
	17		3		12-15
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 313 (fall, even years (or elective))* 2 Database Systems	3	Interim Off		COS 386 (spring, odd years (or Elective))* 2 Data Communications and Computer Networks	3
Computer Science elective	3			Computer Science Elective	3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Electives	6			Electives	6
	15		0		15
Total Credits 128-131					

- Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)
- Choose two from: [COS 313](#), [COS 318](#), [COS 386](#), [COS 334](#) (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.)