

B.A. in Computer Science 2020-2021: 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 Object-oriented Design and Programming	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 Data Structures	4	Elective	3	COS 235 Computer Systems	4
MAT 241 Discrete Mathematics	3			COS 216 Algorithms and Advanced Data Structures	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
Leisure and Lifetime Sports (Q) course	1	Interim off		COS 386 (spring, odd years) or elective Data Communications and Computer Networks *2	3
COS 313 (fall, even years) or elective Database Systems *2	3			Computer Science Elective	3
COS 318 Web Programming *2	3			Comparative Systems (G) course	3
World Cultures (U) course	3			Elective	3
Science, Technology, and Society (K) course	3			Artistic Experience (A) course	0-3
	13		0		12-15
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
Computer Science elective	3	COS 450 Humans and Computers	3	COS 334 (Spring, even # years) *2	3
Interpreting Biblical Themes (J) course	3			COS 386 (spring, odd years (or elective) Data Communications and Computer Networks *2	3
Electives	9			Computer Science Elective	3
				Contemporary Christian Issues (P) course	3
				Elective	3
	15		3		15
Total Credits 122-125					

*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 three from: COS 313, COS 318 ,COS 334, COS 335, COS 386, COS 420, COS 477 (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 2020-2021: 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 Object-oriented Design and Programming	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 Data Structures	4	Elective	3	COS 235 Computer Systems	4
MAT 241 Discrete Mathematics	3			COS 216 Algorithms and Advanced Data Structures	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
Leisure and Lifetime Sports (Q) course	1	Interim off		COS 386 (spring, odd # years (or elective) Data Communications and Computer Networks *2	3
COS 313 (fall, even years) or elective Database Systems	3			Computer Science Elective	3
COS 318 Web Programming *2	3			Comparative Systems (G) course	3
World Cultures (U) course	3			Elective	3
Science, Technology, and Society (K) course	3			Artistic Experience (A) course	0-3
	13		0		12-15
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
COS 477 (or elective) Software Engineering	3	COS 450 Human and Computers	3	COS 334 Data Mining and Machine Learning *2	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		3		15
Total Credits 124-127					

*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 three from: COS 313, COS 318, COS 334, COS 335, COS 386, COS 420, COS 477 (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 may be split between fall and spring for state grant purposes only.)