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

Interim GES 160 Inquiry Seminar 4 4 4 4 5 14 7 14 7 14 7 14 15 16 17 18 19 19 10 10 10 11 12 13 14 14 15 16 17 18 19 19 10 10 10 10 10 10 10 10 10 10	3 Credits 3	COS 105 Computer Science 1 MAT 125 Calculus 2 BIB 101 Introduction to the Bible Second Language (S) course'	Credits
4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 Credits 3	MAT 125 Calculus 2 BIB 101 Introduction to the Bible Second Language (S) course' Spring	15
4 3 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	3 Credits	BIB 101 Introduction to the Bible Second Language (S) course' Spring	15
4 3 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	3 Credits	BIB 101 Introduction to the Bible Second Language (S) course' Spring	15
3 14 15 Interim 4 THE 201Christian Theology 3	Credits	Second Language (S) course ¹ Spring	15
14 ts Interim 4 THE 201Christian Theology 3	Credits 3	Spring	15
ts Interim 4 THE 201Christian Theology 3	Credits 3	Spring	
4 THE 201Christian Theology 3	3		Credits
4 THE 201Christian Theology 3	3		Credits
3		COS 214 Computer Architecture	/
			4
4		COS 216 Data Structures and Algorithms	3
		MAT 211 Linear Algebra	3
4		Contemporary Western Life and Thought (L) course	3
		Elective	3
15	3		16
ts Interim	Credits	Spring	Credits
4 COS 450 (Interim, even # years)Humans and Computers		COS 371 (spring, even years) Organization of Programming Languages	3
3			3
3		Interpreting Biblical Themes (J) course	3
3		Cross-Cultural Experience (Z) course	0-3
3		Electives	6
16	3		12-15
ts Interim	Credits	Spring	Credits
3 Interim off	0	COS 386 Data Communications and Computer Networks	3
3		Science, Technology, and Society (K) course	3
3			3
1			0-3
-4			3
			3
14	0	· · · · · · · · · · · · · · · · · · ·	15-18
i1 1	Interim 4 COS 450 (Interim, even # years)Humans and Computers 3 3	Interim Credits 4 COS 450 (Interim, even # years)Humans and Computers 3 3 3 3	Interim Credits Spring 4 COS 450 (Interim, even # years)Humans and Computers 3 COS 371 (spring, even years) Organization of Programming Languages 3

Total Credits 125-132

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: MAT 344, 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 and GES 334K 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.)

B.S. in Computer Science 2019-2020: Option 2 - Humanities

FIRST YEAR					
Fall		Interim	Credits	Spring	Credits
COS 100 or 205 Introduction to Programming or Scientific Computing	3	GES 147Humanities II: Renaissance and Reformation	4	COS 105 Computer Science 1	2
MAT 124MCalculus 1	4			MAT 125 Calculus 2	2
GES 140Introduction to Wellbeing	3			GES 244Humanities III: European Enlightenment and American	4
				Culture to 1877	
GES 145Humanities I: Greco-Roman through Middle Ages	4			Second Language (S) course ¹	2
	14		4		16
SECOND YEAR		-			
Fall		Interim	Credits	Spring	Credits
COS 212 Computer Science 2	4	World Cultures (U) course	3	COS 214 Computer Architecture	4
MAT 241 Discrete Mathematics	3			COS 216 Data Structures and Algorithms	3
BIB 101Introduction to the Bible	3			MAT 211 Linear Algebra	3
GES 246Humanities IV: Modern and Contemporary Western	4			Laboratory Science (D) course	2
Culture					
				Leisure and Lifetime Sports (Q) course	1
	14		3		15
Fall		Interim	Credits		Credits
COS 301Operating Systems	1	COS 450 (Interim, even # years) Humans and Computers		Interpreting Biblical Themes (J) course	3
COS 320 (Fall, odd # years) Computer Graphics Programming	3			COS 371 (Spring, even # years) Organization of Programming Languages	3
COS 318 Web Programming	3				3
COS 477 (Fall, odd # years) Software Engineering	3			Elective	3
World Cultures (U) course				Cross-Cultural Experience (Z) course	3
	16		3		15
FOURTH YEAR Fall	Credits	Interim	Credits	Spring	Credits
COS 313 (fall, even years) Database Systems		Interim Off		COS 386 (Spring, odd # years) Communications and Computer N	Greate
MAT 330 Probability and Statistics	3		0	Science, Technology, and Society (K) course	3
Electives ²	6			3	
Comparative Systems (G) course	3	Artistic Experience (A) course		0-3	
				Elective ²	3
				COS 389 (Spring, odd # years) Artifical Intelligence	
	15		0	COS SOS (Spring, Oud # years) Artifical Intelligence	15-18
	10		0		10-10

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: MAT 344, 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 and GES 334K 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.)