B.S. in Software Engineering 2020-2021: Option 1 CWILT

FIRST YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COS 100 Introduction to Programming	3	GES 160 Inquiry Seminar	3	COS 105 Object-oriented Design and Programming	4
MAT 124M* Calculus 1	4			BIB 101 Introduction to the Bible	3
GES 130 Christianity Western Culture	4			GES 125 Introduction to the Creative Arts	4
GES 140 Introduction to Wellbeing	3			Second Language (S) Course *1	4
	14		3		15

SECOND YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COS 212 Data Structures	4	ENR 160 Introduction to Engineering	3	COS 235 Computer Systems	4
MAT 241 Discrete Mathematics	3			COS 216 Algorithms and Advanced Data Structures	3
Laboratory Science (D) course	4			MAT 211 Linear Algebra	3
Contemporary Western Life and Thought (L) course	3			THE 201 Christian Theology	3
Elective	3			Leisure and Lifetime Sport (Q) course (0-3 credits)	1
	17		3		14

THIRD YEAR

Fall	Credits	Interim	Credits	Spring	Credits
Electives	6	Interim off		BUS 334 Principles of Project Management	3
COS 313 Database Systems	3			COS 386 Data Communications and Computer Networks	3
MAT 207M Statistical Analysis	3			COS 420 Software Process	3
World Cultures (U) course	3			Comparative Systems (G) course	3
				Cross-cultural Experience (Z) (0-3 credits)	0-3
	15		0		12-15

FOURTH YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COS 318 Web Programming	3	COS 450 Humans and Computers	3	COS 371 Organization of Programming Languages	3
COS 477 Software Engineering	3			ENR 490 Engineering Design Project	3
ENR 465 Engineering Design Seminar	1			Artistic Experience (A) course	0-3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Science, Technology, and Society (K) course	3			Elective	3
	13		3		12-15

Total Credits 121-127

*1. Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit loads fall below 15 credits/semester. (Interim credits may be split between fall

B.S. in Software Engineering 2020-2021: Option 2 - Humanities

FIRST YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COS 100 Introduction to Programming	3	GES 147 Humanities II: Renaissance and Reformation	4	COS 105 Object-oriented Design and Programming	4
MAT 124M Calculus 1	4			BIB 101 Introduction to the Bible	3
GES 140 Introduction to Wellbeing	3			GES 244 Humanities III: European Enlightenment and American Culture to 1877	4
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	ENR 160 Introduction to Engineering	3	COS 235 Computer Systems	4
MAT 241 Discrete Mathematics	3			COS 216 Algorithms and Advanced Data Structures	3
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			MAT 211 Linear Algebra	3
Laboratory Science (D) course	4			THE 201 Christian Theology	3
Contemporary Western Life and Thought (L) course	3			Leisure and Lifetime Sport (Q) course	1
	18		3		14

THIRD YEAR

Fall	Credits	Interim	Credits	Spring	Credits
Electives	6	Interim off		BUS 334 Principles of Project Management	3
COS 313 Database Systems	3			COS 386 Data Communications and Computer Networks	3
World Cultures (U) course	3			COS 420 Software Process	3
MAT 207M Statistical Analysis	3			Comparative Systems (G) course	3
				Cross-cultural Experiences (Z) course	0-3
	15		0		12-15

FOURTH YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COS 318 Web Programming	3	COS 450 Humans and Computers	3	COS 371 Organization of Programming Languages	3
COS 477 Software Engineering	3			ENR 490 Engineering Design Project	3
ENR 465 Engineering Design Seminar	1			Artistic Experience (A) course	0-3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
Science, Technology, and Society (K) course	3			Elective	3
	13		3		12-15

Total Credits 123-129

*1. Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

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