B.S. in Software Engineering 2019-2020: Option 1 CWILT (Modular)

FIRST YEAR

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

SECOND YEAR

Fall	Credits	Interim	Credits	Spring	Credits
MAT 241 Discrete Mathematics	3	ENR 160Introduction to Engineering	3	COS 214 Computer Architecture	4
Contemporary Western Life and Thought (L)	3			COS 216 Data Structures and Algorithms	3
COS 212Computer Science 2	4			Leisure and Lifetime Sport (Q) course	1
Laboratory Science (D) course	4			MAT 211 Linear Algebra	3
				THE 201 Christian Theology	3
				Artistic Activity (A) course	0-3
	14		3		14-17

THIRD YEAR

Fall	Credits	Interim	Credits	Spring	Credits
World Cultures (U) course	3	COS 450 (interim, even # years) Humans and Computers	3	BUS 334 Principles of Project Management	3
COS 301Operating Systems	4			Comparative Systems (G) course	3
MAT 207MStatistical Analysis	3			Elective	3
COS 313 Database Systems	3			Cross-cultural Experience (Z)	0-3
COS 477 (Fall, odd # years) Software Engineering	3			COS 371 Organization of Programming Languages	3
	16		3		12-15

FOURTH YEAR

Fall	Credits	Interim	Credits	Spring	Credits
Elective	3	Interim off		COS 386 Data Communications and Computer Networks	3
Interpreting Biblical Themes (J) course	3			ENR 490Engineering Design Project	3
COS 318 Web Programming	3			Contemporary Christian Issues (P) course	3
ENR 465Engineering Design Seminar	1			Elective	3
Science, Technology, and Society (K) course	3			COS 420 Software Process	3
	13		0		15

Total Credits 123-126

* 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 and spring for state grant purposes only.)

B.S. in Software Engineering 2019-2020: Option 2 - Humanities (Integrated)

FIRST YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COS 100Introduction to Programming	3	GES 147Humanities II: Renaissance and Reformation	4	COS 105 Computer Science 1	4
MAT 124M*Calculus 1	4			Second Language (S) course	4
GES 140Introduction to Wellbeing	3			GES 244Humanities III: European Enlightenment and American Culture to 1877	4
GES 145Humanities I: Greco-Roman through Middle Ages	4			BIB 101Introduction to the Bible	3
	14		4		15

SECOND YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COS 212 Computer Science 2	4	ENR 160Introduction to Engineering	3	MAT 211 Linear Algebra	3
MAT 241 Discrete Mathematics	3			COS 214 Computer Architecture	4
Laboratory Science (D) course	4			COS 216 Data Structures and Algorithms	3
GES 246Humanities IV: Modern and Contemporary Western Culture	4			World Cultures (U) course	3
COS 313 (Fall, even # years) Database Systems	3			Artistic Activity (A) course	0-3
				Leisure and Lifetime Sport (Q) course	1
	18		3		14-17

THIRD YEAR

Fall	Credits	Interim	Credits	Spring	Credits
COM 248Organizational Communication	3	COS 450Humans and Computers	3	Electives	6
COS 301Operating Systems	4			Cross-cultural Experiences (Z) course	0-3
MAT 207MStatistical Analysis	3			COS 371 Organization of Programming Languages	3
COS 477 (Fall, odd # years) Software Engineering	3			Interpreting Biblical Themes (J) course	3
				BUS 334 Principles of Project Management	3
	13		3		12-15

FOURTH YEAR

Fall	Credits	Interim	Credits	Spring	Credits
Comparative Systems (G) course	3	Interim Off		COS 386 Data Communications and Computer Networks	3
COS 318 Web Programming	3			Contemporary Christian Issues (P) course	3
Science, Technology, and Society (K) course	3			ENR 490Engineering Design Project	3
ENR 465Engineering Design Seminar	1			COS 420 Software Process	3
				Elective	3
	13		0		15

Total Credits 124-130

* 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 and spring for state grant purposes only.)