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

Fall	Credits Interim	Credits Interim Credits		Credi
GES 140 Introduction to Wellbeing	3 ENR 160 Introduction to Engineering		COS 205 Scientific Computing	
GES 160 Inquiry Seminar	3		GES 130 Christianity Western Culture	
MAT 124M Calculus 1	4		MAT 125 Calculus 2	
PHY 292	4		PHY 296	
& PHY 292D			& PHY 297	
General Physics I and General Physics I Lab			General Physics II and General Physics II Lab	
,	14	3	3	
SECOND YEAR				
Fall	Credits Interim	Credits	Spring	Credi
COS 212 Data Structures	4 GES 125 Introduction to the Creative Arts	4	COS 214 Computer Architecture	
ENR 316	4		COS 216 Algorithms and Advanced Data Structures	
<u>& ENR 317</u>				
Analog Circuitry and Design and Analog Circuitry Design Lab				
MAT 224 Differential Equations with Linear Algebra	4		MAT 223 Multivariable Calculus	
PHY 260 Careers in Engineering and Physics Seminar	1		Contemporary Western Life and Thought (L) course	
PHY 302	4		Second Language (S) course *1	
<u>& PHY 303</u>				
Electronics and Electronics Lab				
	17	4	1	
THIRD YEAR				
Fall	Credits Interim		Spring	Credi
BIB 101 Introduction to the Bible	3 Cross-cultural experience (Z) course	0-3	COS 386 Data Communications and Computer Networks	
ENR 336 Signals and Systems	4		ENR 306	
			<u>& ENR 307</u>	
			Digital Logic and Design and Digital Logic and Design Lab	
ENR 436	4		PHY 352	
& ENR 437 Microprocessors and Microprocessors Lab			& PHY 353 Computer Methods in Physics and Engineering and Computer Methods in	
			Physics and Engineering Lab	
MAT 241 Discrete Mathematics	3		THE 201 Christian Theology	
	14	0-3	3	
FOURTH YEAR				
Fall	Credits Interim	Credits	Spring	Credi
COS 301 Operating Systems	4 COS 450 Humans and Computers	3	ENR 490 Engineering Design Project	
ENR 465 Engineering Design Seminar	1		Artistic Experience (A) course (0-3 credits)	C
MAT 330 Probability and Statistics	3		Comparative Systems (G) course	
Interpreting Biblical Themes (J) course	3		Science, Technology, and Society (K) course	
Leisure and Lifetime Sports (Q) course	1		Contemporary Christian Issues (P) course	
Total Credits 125-131	12		3	12-

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.

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

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

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
GES 140 Introduction to Wellbeing	3	GES 147 Humanities II: Renaissance and Reformation	4	GES 244 Humanities III: European Enlightenment and American	4
GES 145 Humanities I: Greco-Roman through Middle Ages	4			COS 205 Scientific Computing	3
MAT 124M Calculus 1	4			MAT 125 Calculus 2	4
PHY 292	4			PHY 296	4
& PHY 292D				& PHY 297	
General Physics I and General Physics I Lab				General Physics II and General Physics II Lab	
	15		4		15
SECOND YEAR					
Fall			Credits		Credits
COS 212 Data Structures	4	ENR 160 Introduction to Engineering	3	COS 214 Computer Architecture	4
ENR 316	4			COS 216 Algorithms and Advanced Data Structures	3
<u>& ENR 317</u>					
Analog Circuitry and Design and Analog Circuitry Design Lab					
MAT 224 Differential Equations with Linear Algebra	4			MAT 223 Multivariable Calculus	3
PHY 260 Careers in Engineering and Physics Seminar	1			Second Language (S) course *1	4
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			Leisure and Lifetime Sports (Q) course	1
	17		3		15
THIRD YEAR			Ü		10
Fall	Credits	Interim	Credits	Spring	Credits
ENR 336 Signals and Systems		COS 450 Humans and Computers		COS 386 Data Communications and Computer Networks	3
ENR 436	4			ENR 306	4
& ENR 437				& ENR 307	
Microprocessors and Microprocessors Lab				Digital Logic and Design and Digital Logic and Design Lab	
MAT 241 Discrete Mathematics	3			<u>PHY 352</u>	4
				<u>& PHY 353</u>	
				Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	
PHY 302	4			THE 201 Christian Theology	3
<u>& PHY 303</u>					
Electronics and Electronics Lab					
BIB 101 Introduction to the Bible	3				
FOURTH YEAR	18		3		14
Fall	Credits	Interim (Credits	Spring	Credits
COS 301 Operating Systems	4	Cross-cultural experience (Z) course	0-3	ENR 490 Engineering Design Project	3
ENR 465 Engineering Design Seminar	1			Artistic Experience (A) course (0-3 credits)	0-3
MAT 330 Probability and Statistics	3			Comparative Systems (G) course	3
Interpreting Biblical Themes (J) course	3			Science, Technology, and Society (K) course	3
Leisure and Lifetime Sport (Q) course	1			Contemporary Christian Issues (P) course	3
	12		0-3		12-15
Total Credits 128-134					

^{*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 and spring for state grant purposes only.