B.A. in Engineering 2020-2021: Option 1 - CWILT

FIRST YEAR				
Fall	Credits Interim	Credits	Spring	Credits
BIB 101 Introduction to the Bible	GES 125 Introduction to the Creative Arts	4	GES 130 Christianity Western Culture	4
GES 140 Introduction to Wellbeing	3		GES 160 Inquiry Seminar	3
MAT 124M Calculus 1	4		MAT 125 Calculus 2	4
PHY 292	4		PHY 296	4
<u>& PHY 292D</u>			<u>& PHY 297</u>	
General Physics I and General Physics I Lab			General Physics II and General Physics II Lab	
	14	4		15
SECOND YEAR				
Fall	Credits Interim	Credits	Spring	Credits
COS 205 Scientific Computing	³ THE 201 Christian Theology	3	ENR 352	4
			<u>& ENR 353</u>	
			(or elective) Computer Methods in Physics and EngineeringComputer Methods in Physics and Engineering Lab *2	
ENR 260 Careers in Engineering and Physics Seminar	1		MAT 223 Multivariable Calculus	3
MAT 224 Differential Equations with Linear Algebra	4		Science, Technology, and Society (K) course	3
PHY 302	4		Contemporary Western Life and Thought (L) course	3
<u>& PHY 303</u>				
Electronics and Electronics Lab *3				
Second Language (S) course *1	4			
	16	3		13
THIRD YEAR				
Fall	Credits Interim	Credits Spring		Credits
CHE 113	4 Comparative Systems (G) course	3	PHY 312	4
<u>& CHE 113D</u>			<u>& PHY 313</u>	
General Chemistry I and General Chemistry I Lab			Modern Physics and Modern Physics Lab	
ENR 320 Mathematical Methods in Physics and Engineering *3	4		Electives (Physics or Engineering course recommended, MAT211 strongly recommended) or Linear Algebra	5
MAT 344 (or elective) Numerical Methods *2	3		Artistic Experience (A) course	0-3
Leisure and Lifetime Sports (Q) course	1		Interpreting Biblical Themes (J) course	3
World Cultures (U) course	3		Contemporary Christian Issues (P) course	3
Cross-Cultural Experience (Z) course	0-3			
	15-18	3		15-18
FOURTH YEAR	the state of the s			
Fall	Credits			
Credits from an accredited university engineering program	25			
, , , , ,	25			
Total Credits 123-129				
1000 0100120 120				

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

This program assumes a student will use PHY 292/PHY 292D and MAT 124M to meet the General Education Laboratory Science (D) course and Mathematics (M) course requirements.

This is a dual-degree Engineering program. It must be completed at a university which offers engineering degrees.

Students receive their Bethel degree with an Engineering major only upon completion of the engineering degree at the other school.

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.)

^{*2.} Choose from ENR 352/ENR 353 or MAT 344.

^{*3.} Electives choices depend on area of engineering interest. At least 12 credits must be chosen from Electronics, Modern Physics, Mathematical Methods in Physics & Engineering, Mechanics, Fluid Mechanics, Topics in Applied Physics, Statistics, and Mechanics of Materials, Probability and Statistics. Chemical Engineers must choose General Chemistry II, Organic Chemistry I & II.

B.A. in Engineering 2020-2021: Option 2 - Humanities

FIRST YEAR					
Fall	Credits In	terim	Credits	Spring	Credit
GES 140 Introduction to Wellbeing	3 <u>G</u>	ES 147 Humanities II: Renaissance and Reformation	4	GES 244 Humanities III: European Enlightenment and American	
				Culture to 1877	
GES 145 Humanities I: Greco-Roman through Middle Ages	4			MAT 125 Calculus 2	
MAT 124M Calculus 1	4			PHY 296	
				<u>& PHY 297</u>	
				General Physics II and General Physics II Lab	
PHY 292	4			Second Language (S) course *1	
<u>& PHY 292D</u>					
General Physics I and General Physics I Lab					
	15		4		
SECOND YEAR					
Fall	Credits In	nterim	Credits	Spring	Credit
COS 205 Scientific Computing	3 W	/orld Cultures (U) course	3	ENR 352	
				<u>& ENR 353</u>	
				(or elective) Computer Methods in Physics and EngineeringComputer	
	1			Methods in Physics and Engineering Lab *2	
ENR 260 Careers in Engineering and Physics Seminar	1			MAT 223 Multivariable Calculus	
MAT 224 Differential Equations with Linear Algebra	4			BIB 101 Introduction to the Bible	
PHY 302	4			Science, Technology, and Society (K) course	
& PHY 303					
Electronics and Electronics Lab *3					
GES 246 Humanities IV: Modern and Contemporary Western Culture	4				
	16		3		1
THIRD YEAR					
Fall	Credits In			Spring	Credit
CHE 113	4 C	omparative Systems (G) course	3	PHY 312	
<u>& CHE 113D</u>				<u>& PHY 313</u>	
General Chemistry I and General Chemistry I Lab				Modern Physics and Modern Physics Lab	
ENR 320 Mathematical Methods in Physics and Engineering *3	4			Electives (Physics or Engineering course recommended, MAT211 strongly recommended) or Linear Algebra	
MAT 344 (or elective) Numerical Methods *2	3			Artistic Experience (A) course	0-
Lifetime and Leisure Sports (Q) course	1			Interpreting Biblical Themes (J) course	
Cross-Cultural Experience (Z) course	0-3			Contemporary Christian Issues (P) course	
Elective	3				
	15-18		3		13-1
FOURTH YEAR	فرادات				
Fall	Credits				
Credits from an accredited university engineering program	25				
	25				
Total Credits 123-129				1	

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

This program assumes a student will use PHY 292/PHY 292D and MAT 124M to meet the General Education Laboratory Science (D) course and Mathematics (M) course requirements.

This is a dual-degree Engineering program. It must be completed at a university which offers engineering degrees.

Students receive their Bethel degree with an Engineering major only upon completion of the engineering degree at the other school.

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.)

^{*2.} Choose from ENR 352/ENR 353 or MAT 344.

^{*3.} Electives choices depend on area of engineering interest. At least 12 credits must be chosen from Electronics, Modern Physics, Mathematical Methods in Physics & Engineering, Mechanics, Fluid Mechanics,