B.A. in Engineering 2017-2018: Option 1 - CWILT

First Year		_	
Fall	Credits Interim	Credits Spring	Credits
PHY292 & 292D General Physics I and General Physics I Lab	4 GES125 Introduction to the Creative Arts	4 PHY296 & PHY297 General Physics II and General Physics II Lab	4
MAT124M Calculus 1	4	MAT125 Calculus 2	4
BIB101 Introduction to the Bible	3	GES130 Christianity Western Culture	4
GES140 Introduction to Wellbeing	3	GES160 Inquiry Seminar	3
	14	4	15
Second Year			
Fall	Credits Interim	Credits Spring	Credits
COS205 Scientific Computing	3 THE201 Christian Theology	3 MAT222 Differential Equations	3
MAT223 Multivariable Calculus	3	PHY312 & PHY313 Modern Physics and Modern Physics Lab *3	4
ENR260 Careers in Engineering and Physics Seminar	1	ENR352 & ENR35 (or elective)2Computer Methods in Physics and	4
		EngineeringComputer Methods in Physics and Engineering Lab *3	
PHY302 & PHY303 Electronics and Electronics Lab *3	4	Contemporary Western Life and Thought (L) course	3
Second Language (S) course ¹	4		
	15	3	14
Third Year			
Fall	Credits Interim	Credits Spring	Credits
CHE113 & 113D General Chemistry I and General Chemistry I Lab	4 Comparative Systems (G) course	3 Science, Technology, and Society (K) course	3
ENR3203 Mathematical Methods in Physics and Engineering	4	Contemporary Christian Issues (P) course	3
World Cultures (U) course	3	Interpreting Biblical Themes (J) course	3
MAT344 (or elective)Numerical Methods *2	3	Electives (Physics or Engineering course recommended)	5
Cross-Cultural Experience (Z) course	0-3	Artistic Experience (A) course	0-3
Leisure and Lifetime Sports (Q) course	1		
	15-18	3	14-17
Fourth Year			
Fall, Interim, Spring	Credits		
Credits from an accredited university engineering program	25		
	25		

^{*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 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 ENR352/ENR353 or MAT344.

^{*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 I, Organic Chemistry I & II.

^{*4.} This program assumes a student will use PHY292/PHY292D andMAT124M to meet the general education Laboratory Science and Mathematics requirements.

B.A. in Engineering 2017-2018: Option 2 - Humanities

First Year			
Fall	Credits Interim	Credits Spring	Credits
PHY292 & 292D General Physics I and General Physics I Lab	4 GES147 Humanities II: Renaissance and Reformation	4 PHY296 & PHY297 General Physics II and General Physics II Lab	4
MAT124M Calculus 1	4	MAT125 Calculus 2	4
GES145 Humanities I: Greco-Roman through Middle Ages	4	GES244 Humanities III: European Enlightenment and American	4
		Culture to 1877	
GES140 Introduction to Wellbeing	3	Second Language (S) course ¹	4
	15	4	16
Second Year			
Fall	Credits Interim	Credits Spring	Credits
COS205 Scientific Computing	3 World Cultures (U) course	3 MAT222 Differential Equations	3
MAT223 Multivariable Calculus	3	PHY312 & PHY313 Modern Physics and Modern Physics Lab *3	4
PHY302 & PHY303 Electronics and Electronics Lab *3	4	ENR352 & ENR353 (or elective)Computer Methods in Physics and En	4
GES246 Humanities IV: Modern and Contemporary Western Culture	4	BIB101 Introduction to the Bible	3
ENR260 Careers in Engineering and Physics Seminar	1		
	15	3	14
Third Year			
Fall	Credits Interim	Credits Spring	Credits
CHE113 & 113D General Chemistry I	4 Comparative Systems (G) course	3 Science, Technology, and Society (K) course	3
ENR3203 Mathematical Methods in Physics and Engineering	4	Contemporary Christian Issues (P) course	3
Lifetime and Leisure Sports (Q) course	1	Interpreting Biblical Themes (J) course	3
MAT344 (or elective)2Numerical Methods	3	Electives (Physics or Engineering course recommended)	3
Cross-Cultural Experience (Z) course	0-3	Artistic Experience (A) course	0-3
Electives	3		
	15-18	3	12-15
Fourth Year			
Fall	Credits		
Credits from an accredited university engineering program	25		
	25		

^{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 PHY292/PHY292D and MAT124M to meet the general education Laboratory Science and Mathematics 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 ENR352/ENR353 or MAT344.

^{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.