B.A. in Engineering 2016-2017: Option 1 - CWILT

First Year

Fall	Credits	Interim	Credits	Spring	Credits
PHY292 General Physics I and Lab & 292D	4	GES125 Introduction to the Creative Arts	4	PHY296 General Physics II and Lab & PHY297	4
MAT124M Calculus 1	4			MAT125 Calculus 2	4
GES106 Introduction to Liberal Arts	1			GES130 Christianity Western Culture	4
GES110 College Writing	3			Second Language (S) course *1	4
BIB101 Introduction to the Bible	3				
	15		4		16

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 Modern Physics and Lab & PHY313 *3	4
ENR260 Careers in Engineering and Physics Seminar	1			ENR352 Computer Methods in Physics and Engineering and Lab & ENR353 (or elective) *2	4
PHY302 Electronics and Lab & PHY303 *3	4			Contemporary Western Life and Thought (L) course	3
PEA100 Physical Wellness for Life	1				
Nature of Persons (N) course	3				
	15		3		14

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
CHE113 General Chemistry I and Lab & 113D	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			Leisure and Lifetime Sports (Q) course	1
MAT344 (or elective) *2	3			Interpreting Biblical Themes (J) course	3
Cross-Cultural Experience (Z) course	0-3			Electives (Physics or Engineering course recommended)	3
				Artistic Experience (A) course	0-3
	14-17		3		13-16

Fourth Year

Fall	Credits
Credits from an accredited university engineering program	25
	25

Total Credits: 122-128

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

*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

This program assumes a student will use PHY292/PHY292D andMAT124M 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

B.A. in Engineering 2016-2017: Option 2 - Humanities

First Year

Fall	Credits	Interim	Credits	Spring	Credits
PHY292 General Physics I and Lab & 292D	4	GES147 Humanities II: Renaissance and Reformation	4	PHY296 General Physics II and Lab & PHY297	4
MAT124M Calculus *1	4			MAT125 Calculus 2	4
GES106 Introduction to Liberal Arts	1			GES244 Humanities III: European Enlightment and American Culture to 1877	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			Second Language (S) course *1	4
Nature of Persons (N) course	3				
	16		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 Modern Physics and Lab & PHY313 *3	4
PEA100 Physical Wellness for Life	1			ENR352 Computer Methods in Physics and Engineering and Lab & ENR353 (or elective) *2	4
PHY302 Electronics and Lab & PHY303 *3	4			BIB101 Introduction to the Bible	3
GES246 Humanities IV: Modern and Contemporary Western Culture	4				
ENR260 Careers in Engineering and Physics Seminar	1				
	16		3		14

Third Year

Fall	Credits	Interim	Credits	Spring	Credits
CHE113 General Chemistry I and Lab & 113D	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) *2	3			Electives (Physics or Engineering course recommended)	4
Cross-Cultural Experience (Z) course	0-3			Artistic Experience (A) course	0-3
	12-15		3		13-16

Fourth Year

Fall	Credits
Credits from an accredited university engineering program	25
	25

Total Credits: 122-128

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

*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 Applie

This program assumes a student will use PHY292/PHY292D andMAT124M 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