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Second Year Fall Credits Interim Credits Spring C Code Scientific Computing 3 THE 201 Christian Theology 3 MAT 222 Differential Equations C Code Scientific Computing 3 THE 201 Christian Theology 3 MAT 223 Differential Equations PHY 312 & PHY 313 *3 Modern Physics and Modern Physics Lab ENR 352 & ENR 353m (or elective)*2 Computer Methods in Physics and Engineering Computer Methods in Physics and Engineering Lab Contemporary Western Life and Thought (L) course Lab Second Language (S) course*1 4 Second Language (S) course*1 4 Second Language (S) course*1 4 Second Language (S) Credits Interim Credits Spring C CHE 113 & CHE 113D General Chemistry I and 4 Comparative Systems (G) course Spring C C CHE 113 & CHE 113D General Chemistry I Lab Comparative Systems (G) course C Comparative Systems (G) course C Contemporary Christian Issues (P) course Engineering World Cultures (U) course 3 Interpreting Biblical Themes (J) course Electives (Physics or Engineering course recommended) C Cross-Cultural Experience (Z) course C Course C Contemporary Christian Equipation (C) Course C Contemporary Christian Issues (P) course C Contemporary Christian Issues (P) course C Contemporary Christian Issues (P) course C C C C Contemporary Christian Issues (P) course C C C C C C C C C C C C C C C C C C	3
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MAT 344 (or elective)*2 Numerical Methods 3 Electives (Physics or Engineering course recommended) Cross-Cultural Experience (Z) course 0-3	
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Cross-Cultural Experience (2) course U-3	0.0
11 - 1	0-3
Leisure and Lifetime Sports (Q) course 1 15-18 3	4447
15-18 3 Fourth Year	14-17
Fall Credits	
Credits from an accredited university engineering 25	
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 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.

This program assumes a student will use PHY 292/PHY 292D andMAT 124M 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.)

B.A. in Engineering 2018-2019: Option 2 - Humanities							
First Year							
Fall PHY 292 & PHY 292D General Physics I and General Physics I Lab		Interim GES 147 Humanities II: Renaissance and Reformation	Credits 4	Spring PHY 296 & PHY 297 General Physics II and General Physics II Lab	Credits 4		
MAT 124M Calculus 1 GES 145 Humanities I: Greco-Roman through Middle Ages	4			MAT 125 Calculus 2 GES 244 Humanities III: European Enlightenment and American Culture to 1877	4		
GES 140 Introduction to Wellbeing	3 15		1 4	Second Language (S) course*1	4 16		
Second Year							
Fall	Credits	Interim	Credits	Spring	Credits		
COS 205 Scientific Computing		World Cultures (U) course	3	MAT 222 Differential Equations	3		
MAT 223 Multivariable Calculus	3	Trong Canado (c) Course		PHY 312 & PHY 313 *3 Modern Physics and Modern Physics Lab	4		
PHY 302 & PHY 303 *3 Electronics and Electronics Lab	4			ENR 352 & ENR 353 (or elective)*2 Computer Methods in Physics and EngineeringComputer Methods in Physics and Engineering Lab	4		
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			BIB 101 Introduction to the Bible	3		
ENR 260 Careers in Engineering and Physics Seminar	1						
	15		3		14		
Third Year							
Fall	Credits	Interim	Credits	Spring	Credits		
CHE 113 & CHE 113D General Chemistry I and General Chemistry I Lab	4	Comparative Systems (G) course	3	Science, Technology, and Society (K) course	3		
ENR 320 *3 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		
MAT 344 (or elective)*2 Numerical 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 from an accredited university engineering	Credits 25				·		
program	25				1		
Total Credits 122-128	23		J.		l .		

- 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 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.

This program assumes a student will use PHY 292/PHY 292D and MAT 124M 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.

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