

B.S. in Applied Physics (Mechanics Emphasis) 2017-2018: Option 1 - CWILT

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY292 & 292D General Physics I and General Physics I Lab *1	4	GES125 Introduction to the Creative Arts	4	PHY296 & PHY297 General Physics II and General Physics II Lab	4
BIB101 Introduction to the Bible	3			GES130 Christianity Western Culture	4
GES160 Inquiry Seminar	3			GES140 Introduction to Wellbeing	3
MAT124M Calculus 1 *1	4			MAT125 Calculus 2	4
	14		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY302 & PHY303 Electronics and Electronics Lab	4	World Cultures (U) course	3	PHY312 & PHY313 Modern Physics and Modern Physics Lab	4
COS205 Scientific Computing	3			PHY352 & PHY353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
PHY260 Careers in Engineering and Physics Seminar	1			MAT222 Differential Equations	3
MAT223 Multivariable Calculus	3			Second Language (S) course ²	4
Contemporary Western Life and Thought (L) course	3				
	14		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
CHE208 & 208D Accelerated General Chemistry and Accelerated General Chemistry Lab	4	Science, Technology, and Society (K) course	3	ENR308 Statics and Mechanics of Materials	4
PHY422 & PHY423 (fall, odd years) Fluid Mechanics, Fluid Mechanics Lab	4			PHY340 Mechanics	4
PHY320 Mathematical Methods in Physics and Engineering	4			PHY365 Physics Research Seminar	1
THE201 Christian Theology	3			Comparative Systems (G) course	3
				Interpreting Biblical Themes (J) course	3
	15		3		15
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY424 & PHY425 Materials and Devices and Materials and Devices Lab	4	Interim Off		PHY410 (spring, odd years) Thermodynamics	4
PHY490 Research	3			Leisure and Lifetime Sport (Q) course	1
Contemporary Christian Issues (P) course	3			Artistic Experience (A) course	0-3
Cross-Cultural Experience (Z) course	0-3			Electives	8
Electives	4				
	14-17		0		13-16
Total Credits: 125-131					

*1. Students may also choose to use this course to meet a General Education requirement.

*2. 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.)

B.S. in Applied Physics (Mechanics Emphasis) 2017-2018: Option 2 - Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY292 & 292D General Physics I and General Physics I Lab *1	4	GES147 Humanities II: Renaissance and Reformation	4	PHY296 & PHY297 General Physics II and General Physics II Lab	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			GES244 Humanities III: European Enlightenment and American Culture to 1877	4
GES140 Introduction to Wellbeing	3			BIB101 Introduction to the Bible	3
MAT124M Calculus 1 *1	4			MAT125 Calculus 2	4
	15		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY302 & PHY303 Electronics and Electronics Lab	4	World Cultures (U) course	3	PHY312 & PHY313 Modern Physics and Modern Physics Lab	4
COS205 Scientific Computing	3			PHY352 & PHY353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
GES246 Humanities IV: Modern and Contemporary Western Culture	4			MAT222 Differential Equations	3
MAT223 Multivariable Calculus	3			Second Language (S) course ²	4
	14		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
CHE208 & 208D Accelerated General Chemistry and Accelerated General Chemistry Lab	4	Science, Technology, and Society (K) course	3	PHY365 Physics Research Seminar	1
PHY260 Careers in Engineering and Physics Seminar	1			ENR308 Statics and Mechanics of Materials	4
PHY320 Mathematical Methods in Physics and Engineering	4			PHY340 Mechanics	4
PHY422 & PHY423 Fluid Mechanics and Fluid Mechanics Lab	4			Comparative Systems (G) course	3
				Interpreting Biblical Themes (J) course	3
	13		3		15
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY424 & PHY425 Materials and Devices and Materials and Devices Lab	4	Interim Off		PHY410 Thermodynamics	4
PHY490 Research	3			Leisure and Lifetime Sport (Q) course	1
Electives	4			Artistic Experience (A) course	0-3
Contemporary Christian Issues (P) course	3			Electives	8
Cross-Cultural Experience (Z) course	0-3				
	14-17		0		13-16
Total Credits: 124-130					

*1. Students may also choose to use this course to meet a General Education requirement.

*2. 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.)