

B.S. in Applied Physics (Mechanics Emphasis) 2018-2019: Option 1 - CWILT

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 292 & PHY 292D 1 General Physics I and General Physics I Lab	4	GES 125 Introduction to the Creative Arts	4	PHY 296 & PHY 297 General Physics II and General Physics II Lab	4
BIB 101 Introduction to the Bible	3			GES 130 Christianity Western Culture	4
GES 160 Inquiry Seminar	3			GES 140 Introduction to Wellbeing	3
MAT 124M Calculus 1	4			MAT 125 Calculus 2	4
	14		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 302 & PHY 303 Electronics and Electronics Lab	4	World Cultures (U) course	3	PHY 312 & PHY 313 Modern Physics and Modern Physics Lab	4
COS 205 Scientific Computing	3			PHY 352 & PHY 353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
PHY 260 Careers in Engineering and Physics Seminar	1			MAT 222 Differential Equations	3
MAT 223 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
CHE 208 & CHE 208D Accelerated General Chemistry and Accelerated General Chemistry Lab	4	Science, Technology, and Society (K) course	3	ENR 308 Statics and Mechanics of Materials	4
PHY 422 & PHY 423 (fall, odd years) Fluid Mechanics, Fluid Mechanics Lab	4			PHY 340 Mechanics	4
PHY 320 Mathematical Methods in Physics and Engineering	4			PHY 365 Physics Research Seminar	1
THE 201 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
PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab	4	Interim Off		PHY 410 (spring, odd years) Thermodynamics	4
PHY 490 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) 2018-2019: Option 2 - Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 292 & PHY 292D 1 General Physics I and General Physics I Lab	4	GES 147 Humanities II: Renaissance and Reformation	4	PHY 296 & PHY 297 General Physics II and General Physics II Lab	4
GES 145 Humanities I: Greco-Roman through Middle Ages	4			GES 244 Humanities III: European Enlightenment and American Culture to 1877	4
GES 140 Introduction to Wellbeing	3			BIB 101 Introduction to the Bible	3
MAT 124M Calculus 1	4			MAT 125 Calculus 2	4
	15		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 302 & PHY 303 Electronics and Electronics Lab	4	World Cultures (U) course	3	PHY 312 & PHY 313 Modern Physics and Modern Physics Lab	4
COS 205 Scientific Computing	3			PHY 352 & PHY 353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			MAT 222 Differential Equations	3
MAT 223 Multivariable Calculus	3			Second Language (S) course*2	4
	14		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
CHE 208 & CHE 208D Accelerated General Chemistry and Accelerated General Chemistry Lab	4	Science, Technology, and Society (K) course	3	PHY 365 Physics Research Seminar	1
PHY 260 Careers in Engineering and Physics Seminar	1			ENR 308 Statics and Mechanics of Materials	4
PHY 320 Mathematical Methods in Physics and Engineering	4			PHY 340 Mechanics	4
PHY 422 & PHY 423 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
PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab	4	Interim Off		PHY 410 Thermodynamics	4
PHY 490 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.)