

B.S. in Applied Physics (Mechanics Emphasis) 2016-2017: Option 1 - CWILT

First Year						
	Fall	Credits	Interim	Credits	Spring	Credits
PHY292 & 292D General Physics I and General Physics Lab *1		4	GES125 Introduction to the Creative Arts	4	PHY296 & PHY297 General Physics II and General Physics Lab II	4
CHE208 & 208D Accelerated General Chemistry and Accelerated General Chemistry Lab		4			MAT125 Calculus 2	4
GES106 Introduction to Liberal Arts		1			GES130 Christianity Western Culture	4
BIB101 Introduction to the Bible		3			GES110 College Writing	3
Mathematics (M) course		3				
		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
MAT223 Multivariable Calculus		3			PHY352 & PHY353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
COS205 Scientific Computing		3			MAT222 Differential Equations	3
PHY260 Careers in Engineering and Physics Seminar		1			THE201 Christian Theology	3
Nature of Persons (N) course		3				
		14		3		14
Third Year						
	Fall	Credits	Interim	Credits	Spring	Credits
CHE113 & 113D General Chemistry I and General Chemistry I Lab		4	Contemporary Western Life and Thought (L) course	3	PHY365 Physics Research Seminar	1
PHY422 & PHY423 Fluid Mechanics and Fluid Mechanics Lab		4			PHY410 Thermodynamics	4
PEA100 Physical Wellness for Life		1			Comparative Systems (G) course	3
Second Language (S) course *2		4			Science, Technology, and Society (K) course	3
		13		3	Interpreting Biblical Themes (J) course	3
						14
Fourth Year						
	Fall	Credits	Interim	Credits	Spring	Credits
PHY320 Mathematical Methods in Physics and Engineering		4	Interim Off		ENR308 Statics and Mechanics of Materials	4
PHY424 & PHY425 Materials and Devices and Materials and Devices Lab		4			PHY340 Mechanics	4
Contemporary Christian Issues (P) course		3			Leisure and Lifetime Sport (Q) course	1
Electives		3			Electives	4
Cross-Cultural Experience (Z) course		0-3			Artistic Experience (A) course	0-3
		14-17		0		13-16
Total Credits: 122-128						

*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) 2016-2017: Option 2 - Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY292 & 292D General Physics I and General Physics Lab *1	4	GES147 Humanities II: Renaissance and Reformation	4	PHY296 & PHY297 General Physics II and General Physics Lab II	4
CHE208 & 208D Accelerated General Chemistry and Accelerated General Chemistry Lab	4			MAT125 Calculus 2	4
GES106 Introduction to Liberal Arts	1			GES244 Humanities III: European Enlightenment and American Culture to 1877	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			BIB101 Introduction to the Bible	3
Mathematics (M) course	3			PEA100 Physical Wellness for Life	1
	16		4		16
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY302 & PHY303 Electronics and Electronics Lab	4	Nature of Persons (N) course	3	PHY312 & PHY313 Modern Physics and Modern Physics Lab	4
MAT223 Multivariable Calculus	3			PHY352 & PHY353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
COS205 Scientific Computing	3			MAT222 Differential Equations	3
PHY260 Careers in Engineering and Physics Seminar	1			Second Language (S) course *2	4
GES246 Humanities IV: Modern and Contemporary Western Culture	4				
	15		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
CHE113 & 113D General Chemistry I and General Chemistry I Lab	4	Science, Technology, and Society (K) course	3	PHY365 Physics Research Seminar	1
PHY422 & PHY423 Fluid Mechanics and Fluid Mechanics Lab	4			PHY410 Thermodynamics	4
World Cultures (U) course	3			Comparative Systems (G) course	3
Electives	3			Interpreting Biblical Themes (J) course	3
	14		3	Leisure and Lifetime Sport (Q) course	1
					12
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY320 Mathematical Methods in Physics and Engineering	4	Interim Off		ENR308 Statics and Mechanics of Materials	4
PHY424 & PHY425 Materials and Devices and Materials and Devices Lab	4			PHY340 Mechanics	4
PHY490 Research	3			Contemporary Christian Issues (P) course	3
Electives	2			Electives	1
Cross-Cultural Experience (Z) course	0-3			Artistic Experience (A) course	0-3
	13-16		0		12-15
Total Credits: 123-129					

*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.)