

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

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY292 & 292D General Physics I and General Physics I Lab	4	GES160 Inquiry Seminar	3	MAT125 Calculus 2	4
MAT124M Calculus 1	4			PHY296 & PHY297 General Physics II and General Physics II Lab	4
GES125 Introduction to the Creative Arts	4			GES130 Christianity Western Culture	4
GES140 Introduction to Wellbeing	3			BIB101 Introduction to the Bible	3
	15		3		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
ENR260 Careers in Engineering and Physics Seminar	1	World Cultures (U) course	3	MAT222 Differential Equations	3
MAT223 Multivariable Calculus	3			PHY312 & PHY313 Modern Physics and Modern Physics Lab	4
COS205 Scientific Computing	3			Science, Technology, and Society (K) course	3
PHY302	4			Second Language (S) course *1	4
& PHY303 Electronics and Electronics Lab				Cross-cultural Experience (Z) course	0-3
	11		3		16
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY400 Electricity and Magnetism	4	Comparative Systems (G) course	3	PHY340 Mechanics	4
CHE208 & 208D Accelerated General Chemistry	4			ENR352 & ENR353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
THE201 Christian Theology	3			ENR306 & ENR307 Digital Logic and Design and Digital Logic and Design Lab	4
ENR326 & ENR327 Circuit Analysis Simulations and Circuit Analysis Simulations Lab	4			PHY365 Physics Research Seminar	1
	15		3		13
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
ENR424 & ENR425 Materials and Devices and Materials and Devices Lab	4	Interim Off		PHY332 & PHY333 Optics and Optics Lab	4
PHY490 Research	3			Artistic Experience (A) course	0-3
PHY320 Mathematical Methods in Physics and Engineering	4			Contemporary Christian Issues (P) course	3
Interpreting Biblical Themes (J) course	3			Leisure and Lifetime Sport (Q) course	1
	14		0	Elective	3
					14
Total Credits: 122					

*1 Students must complete through the second semester of a first year language course or equivalent

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit falls below 15 credits/semester. (Interim may be split between fall and spring for the state grant purposes only.)

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

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY292 & 292D General Physics I and General Physics I Lab	4	GES147 Humanities II: Renaissance and Reformation	4	PHY296 & PHY297 General Physics II and General Physics II Lab	4
MAT124M Calculus 1	4			MAT125 Calculus 2	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
	15		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
ENR260 Careers in Engineering and Physics Seminar		1 World Cultures (U) course		3 MAT222 Differential Equations	3
MAT223 Multivariable Calculus	3			PHY312 & PHY313 Modern Physics and Modern Physics Lab	4
GES246 Humanities IV: Modern and Contemporary Western Culture	4			COS205 Scientific Computing	3
PHY302 & PHY303 Electronics and Electronics Lab	4			Second Language (S) course *1	4
				Cross-cultural Experience (Z) course	0-3
	12		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY400 Electricity and Magnetism	4	Comparative Systems (G) course		3 PHY340 Mechanics	4
CHE208 & 208D Accelerated General Chemistry	4			ENR352 & ENR353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
ENR326 & 208D Accelerated General Chemistry	4			ENR306 & ENR307 Digital Logic and Design and Digital Logic and Design Lab	4
Science, Technology, and Society (K) course	3			PHY365 Physics Research Seminar	1
	15		3		13
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
ENR424 & ENR425 Materials and Devices and Materials and Devices Lab	4	Interim Off		PHY332 & PHY333 Optics and Optics Lab	4
PHY490 Research	3			Artistic Experience (A) course	0-3
PHY320 Mathematical Methods in Physics and Engineering	4			Contemporary Christian Issues (P) course	3
Interpreting Biblical Themes (J) course	3			Leisure and Lifetime Sport (Q) course	1
				Elective	4
	14		0		13
Total Credits: 122					

*1 Students must complete through the second semester of a first year language course or equivalent

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit falls below 15 credits/semester. (Interim may be split between fall and spring for the state grant purposes only.)