## B.A. in Physics 2016-2017: Option 1 - CWILT

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First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY292 & 292D General Physics I and General Physics Lab	4 Nature of Persons (N) course		3 PHY296 & PHY297 General Physics II and General Physics Lab II		4
MAT124M Calculus *1	4		MAT125 Calculus *2		4
GES106 Introduction to Liberal Arts	1		GES130 Christianity Western Culture		
GES110 College Writing	3		PEA100 Physical Wellness for Life		1
BIB101 Introduction to the Bible	3				
	15		3		13
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY302 & PHY303 Electronics and Electronics Lab	4 Contemporary Wester	rn Life and Thought (L) course	3 PHY312 & PHY313 Modern Physics and Modern Physics Lab		4
PHY260 Careers in Engineering and Physics Seminar	1		MAT222 Differential Equations		
MAT223 Multivariable Calculus	3		World Cultures (U) course		
GES125 Introduction to the Creative Arts	4		Elective (PHY352/353 Computer Methods in Physics and Engineering strongly recommended)		
Second Language (S) course *1	4				
	16		3		14
Third Year	0 "		0 11		
Fall	Credits	Interim	Credits	Spring	Credits
PHY320 Mathematical Methods in Physics and Engineering	4 Science, Technology and Society (K) course		3 PHY 300- or 400- Elective *2		4
THE201 Christian Theology	3		Leisure and Lifetime Sports (Q) course		
Comparative Systems (G) course	3		Elective (Physics course recommended)		
Elective	3	3 Electives			6
	13		3		15
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 300- or 400- Elective *2	4 Interim Off		PHY 300- or 400-leve		4
Interpreting Biblical Themes (J) course	3		Contemporary Christian Issues (P) course		3
Elective (Physics course recommended)	4	4		Elective (Science course recommended)	
Elective	3		Elective		3
Cross Cultural Experience (Z) course	0-3		Artistic Experience (A) course		0-3
	14-17		0		14-17
Total Credits: 123-129					

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

This program assumes a student will us MAT124M and PHY292/292D to meet the general education Mathematics and Laboratory Science requirements.

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.)

<sup>\*2</sup> One course must be PHY332/333, PHY423/433 or PHY490

## B.A. in Physics 2016-2017: Option 2 - Humanities

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First Year						
Fall	Credits	Interim	Credits	Spring	Credits	
PHY292 & 292D General Physics I and General Physics Lab	4 GES147 Humanities	II: Renaissance and Reformation	and Reformation 4 PHY296 & PHY297 General Physics II and General Physics Lab II		4	
MAT124M Calculus *1	4		MAT125 Calculus *2			
GES106 Introduction to Liberal Arts	1		GES244 Humanities III: European Enlightment and American Culture to 1877			
GES145 Humanities I: Greco-Roman through Middle Ages	4		BIB101 Introduction to the Bible		3	
	13		4		15	
Second Year						
Fall	Credits	Interim	Credits	Spring	Credits	
PHY302 & PHY303 Electronics and Electronics Lab	4 Elective		3 PHY312 & PHY313 Modern Physics and Modern Physics Lab			
PHY260 Careers in Engineering and Physics Seminar	1		MAT222 Differential Equations			
MAT223 Multivariable Calculus	3		World Cultures (U) course			
GES246 Humanities IV: Modern and Contemporary Western Culture	4		Elective (PHY352/353 computer Methods in Physics and Engineering strongly recommended)			
Second Language (S) course *1	4					
Social Early adds (S) course 1	16		3		14	
Third Year						
Fall	Credits	Interim	Credits	Spring	Credits	
PHY320 Mathematical Methods in Physics and Engineering	4 Science, Technology and Society (K) course		3 PHY 300- or 400-lev	rel Elective *2	4	
PEA100 Physical Wellness for Life	1		Leisure and Lifetime Sports (Q) course			
Comparative Systems (G) course	3		Elective (Physics course recommended)			
Nature of Persons (N) course	3		Elective			
Electives	3					
	14		3		12	
Fourth Year						
Fall	Credits	Interim	Credits	Spring	Credits	
PHY 300- or 400-level elective *2	4 Interim Off		PHY 300- or 400-lev	rel elective	4	
Interpreting Biblical Themes (J) course	3		Contemporary Christian Issues (P) course			
Elective (Physics course recommended)	4		Elective (Science course recommended)			
Elective	3		Elective			
Cross Cultural Experience (Z) course	0-3		Artistic Experience (A) course		0-3	
	14-17		0		14-17	
Total Credits: 122-128						

<sup>\*1</sup> Students must complete through the second semester of a first year language course or equivalent.

This program assumes a student will us MAT124M and PHY292/292D to meet the general education Mathematics and Laboratory Science requirements.

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.)

<sup>\*2</sup> One course must be PHY332/333, PHY423/433 or PHY490