B.S. in Applied Physics (Mechanics Emphasis) 2019-2020: Option 1 - CWILT

FIRST YEAR			
Fall	Credits Interim	Credits Spring	Credits
PHY 292	4 GES 125Introduction to the Creative Arts	4 <u>PHY 296</u>	4
<u>& PHY 292D</u>		<u>& PHY 297</u>	
General Physics I and General Physics I Lab		General Physics II and General Physics II Lab	
BIB 101Introduction to the Bible	3	GES 130Christianity Western Culture	4
GES 160 Inquiry Seminar	3	GES 140Introduction to Wellbeing	3
MAT 124MCalculus 1	4	MAT 125 Calculus 2	4
	14	4	15
SECOND YEAR			
Fall	Credits Interim	Credits Spring	Credits
PHY 302	4 World Cultures (U) course	3 <u>PHY 312</u>	4
<u>& PHY 303</u>		<u>& PHY 313</u>	
Electronics and Electronics Lab		Modern Physics and Modern Physics Lab	
COS 205Scientific Computing	3	PHY 352	4
		<u>& PHY 353</u>	
		Computer Methods in Physics and Engineering and Computer	
		Methods in Physics and Engineering Lab	
PHY 260 Careers in Engineering and Physics Seminar	1	MAT 222Differential Equations	3
MAT 223Multivariable Calculus	3	Second Language (S) course ²	4
Contemporary Western Life and Thought (L) course	3		
THE VEAD	14	3	15
THIRD YEAR			
Fall	Credits Interim	Credits Spring	Credits
CHE 208	4 Science, Technology, and Society (K) course	3 ENR 308 Statics and Mechanics of Materials	4
<u>& CHE 208D</u>			
Accelerated General Chemistry and Accelerated General			
Chemistry Lab	4	DUN 2 40 M v l v l v l	
PHY 422 & PHY 423	4	PHY 340 Mechanics	4
(fall, odd years) Fluid Mechanics, Fluid Mechanics Lab			
PHY 320Mathematical Methods in Physics and Engineering			
	4	DHV 365 Dhysics Pesearch Seminar	1
1111 520Mathematical Methods III Friysics and Engineering	4	PHY 365 Physics Research Seminar	1
			1
THE 201 Christian Theology	3	Comparative Systems (G) course	3
	3	Comparative Systems (G) course Interpreting Biblical Themes (J) course	3
THE 201 Christian Theology		Comparative Systems (G) course	
THE 201 Christian Theology FOURTH YEAR	15	Comparative Systems (G) course Interpreting Biblical Themes (J) course	3 15
THE 201 Christian Theology FOURTH YEAR Fall	3 To Credits Interim	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring	3
THE 201 Christian Theology FOURTH YEAR Fall PHY 424	15	Comparative Systems (G) course Interpreting Biblical Themes (J) course	3 15
THE 201 Christian Theology FOURTH YEAR Fall	3 To Credits Interim	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring	3 15
FOURTH YEAR Fall PHY 424 & PHY 425	3 To Credits Interim	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring	3 15
FOURTH YEAR Fall PHY 424 & PHY 425	3 To Credits Interim	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring	3 15
FOURTH YEAR Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab PHY 490Research	3 15 Credits Interim 4 Interim Off	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring PHY 410 (spring, odd years) Thermodynamics Leisure and Lifetime Sport (Q) course	3 15 Credits 4
FOURTH YEAR Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab PHY 490Research Contemporary Christian Issues (P) course	3 Credits Interim 4 Interim Off 3 3 3	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring PHY 410 (spring, odd years) Thermodynamics Leisure and Lifetime Sport (Q) course Artistic Experience (A) course	3 15 Credits 4 1 0-3
FOURTH YEAR Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab PHY 490Research Contemporary Christian Issues (P) course Cross-Cultural Experience (Z) course	3 15 Credits Interim 4 Interim Off	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring PHY 410 (spring, odd years) Thermodynamics Leisure and Lifetime Sport (Q) course	3 15 Credits 4
FOURTH YEAR Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab PHY 490Research Contemporary Christian Issues (P) course	3 Credits Interim 4 Interim Off 3 3 0-3	Comparative Systems (G) course Interpreting Biblical Themes (J) course 3 Credits Spring PHY 410 (spring, odd years) Thermodynamics Leisure and Lifetime Sport (Q) course Artistic Experience (A) course	3 15 Credits 4 1 0-3

^{1.} Students may also choose to use this course to meet a General Education requirement.

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.)

^{2.} Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

B.S. in Applied Physics (Mechanics Emphasis) 2019-2020: Option 2 - Humanities

FIRST YEAR	One III	Interior	One Ille	Continue	One III
Fall		Interim	Credits		Credit
PHY 292	2	GES 147Humanities II: Renaissance and Reformation	4	PHY 296	4
<u>& PHY 292D</u>				<u>& PHY 297</u>	
¹ General Physics I and General Physics I Lab				General Physics II and General Physics II Lab	
GES 145Humanities I: Greco-Roman through Middle Ages	4			GES 244Humanities III: European Enlightenment and American	4
				Culture to 1877	
GES 140Introduction to Wellbeing	3			BIB 101Introduction to the Bible	
MAT 124MCalculus 1				MAT 125 Calculus 2	4
	15		4		1
SECOND YEAR					
Fall		Interim	Credits	Spring	Credits
PHY 302	4	World Cultures (U) course	3	PHY 312	4
<u>& PHY 303</u>				<u>& PHY 313</u>	
Electronics and Electronics Lab				Modern Physics and Modern Physics Lab	
COS 205Scientific Computing	3			PHY 352	4
				& PHY 353	
				Computer Methods in Physics and Engineering and Computer	
				Methods in Physics and Engineering Lab	
GES 246Humanities IV: Modern and Contemporary Western Culture	4			MAT 222Differential Equations	;
MAT 223Multivariable Calculus	3			Second Language (S) course ²	4
THE PERSON NAME OF THE PERSON NA	14		3		15
THIRD YEAR		ı			
Fall	Credits	Interim	Credits	Spring	Credits
CHE 208		Science, Technology, and Society (K) course		PHY 365 Physics Research Seminar	Orodin
& CHE 208D		Colonics, realinology, and coolety (it) course		FITT 303 FITYSICS Research Settinial	
Accelerated General Chemistry and Accelerated General					
Chemistry Lab					
PHY 260 Careers in Engineering and Physics Seminar	1			ENR 308 Statics and Mechanics of Materials	
PHY 320Mathematical Methods in Physics and Engineering				PHY 340 Mechanics	
PHY 422					
				Comparative Systems (G) course	•
& PHY 423					
Fluid Mechanics and Fluid Mechanics Lab				LA C DIE LTL (D	
				Interpreting Biblical Themes (J) course	
					1
	13		3		
	Credits	Interim	3 Credits		Credit
FOURTH YEAR Fall PHY 424	Credits		Credits		Credit
PHY 424 8. PHY 425	Credits	Interim	Credits	Spring	Credits
PHY 424	Credits	Interim	Credits	Spring	Credits
PHY 424 8. PHY 425	Credits	Interim Interim Off	Credits	Spring	Credit
Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab	Credits	Interim Interim Off	Credits	Spring PHY 410Thermodynamics	4
Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab PHY 490Research Electives	Credits 2	Interim Interim Off	Credits	Spring PHY 410Thermodynamics Leisure and Lifetime Sport (Q) course	
Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab PHY 490Research Electives Contemporary Christian Issues (P) course	Credits	Interim Interim Off	Credits	Spring PHY 410Thermodynamics Leisure and Lifetime Sport (Q) course Artistic Experience (A) course	0-:
Fall PHY 424 & PHY 425 Materials and Devices and Materials and Devices Lab PHY 490Research	Credits 2	Interim Interim Off	Credits	Spring PHY 410Thermodynamics Leisure and Lifetime Sport (Q) course Artistic Experience (A) course Electives	0-:

^{1.} Students may also choose to use this course to meet a General Education requirement.

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.)

^{2.} Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)