

## B.S. in Mechanical Engineering 2020-2021: Option 1 - CWILT

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">GES 130 Christianity Western Culture</a>	4	<a href="#">ENR 160 Introduction to Engineering</a>	3	<a href="#">GES 140 Introduction to Wellbeing</a>	3
<a href="#">GES 160 Inquiry Seminar</a>	3			<a href="#">COS 205 Scientific Computing</a>	3
<a href="#">MAT 124M Calculus 1</a>	4			<a href="#">MAT 125 Calculus 2</a>	4
<a href="#">PHY 292 General Physics I</a>	3			<a href="#">PHY 296 General Physics II</a>	3
<a href="#">PHY 292D General Physics I Lab</a>	1			<a href="#">&amp; PHY 297 General Physics II Lab</a>	1
				Artistic Experience (A) course	0-3
	15		3		14-17
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIB 101 Introduction to the Bible</a>	3	<a href="#">GES 125 Introduction to the Creative Arts</a>	4	<a href="#">ENR 318 Engineering Thermal Science</a>	3
<a href="#">CHE 208</a> & <a href="#">CHE 208D</a> Accelerated General Chemistry and Accelerated General Chemistry Lab	4			<a href="#">PHY 312</a> & <a href="#">PHY 313</a> Modern Physics and Modern Physics Lab	4
<a href="#">MAT 223 Multivariable Calculus</a>	3			World Cultures (U) course	3
<a href="#">PHY 302</a> & <a href="#">PHY 303</a> Electronics and Electronics Lab	4			Leisure and Lifetime Sports (Q) course	1
Second Language (S) course'	4			Cross-cultural Experience (Z) course	0-3
	18		4		11-14
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">ENR 260 Careers in Engineering and Physics Seminar</a>	1	<a href="#">ENR 265 Computer Aided Design and Engineering</a>	3	<a href="#">ENR 304</a> & <a href="#">ENR 305</a> Engineering Materials and Engineering Materials Lab	4
<a href="#">MAT 224 Differential Equations with Linear Algebra</a>	4			<a href="#">ENR 308 Statics and Mechanics of Materials</a>	4
<a href="#">PHY 340 Mechanics</a>	4			<a href="#">ENR 348 Heat Transfer</a>	3
<a href="#">THE 201 Christian Theology</a>	3			<a href="#">ENR 446</a> & <a href="#">ENR 447</a> Control Systems and Control Systems Lab	4
Contemporary Western Life and Thought (L) course	3				
	15		3		15
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">ENR 320 Mathematical Methods in Physics and Engineering</a>	4	Comparative Systems (G) course	3	<a href="#">ENR 352</a> & <a href="#">ENR 353</a> Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
<a href="#">ENR 356 Fundamentals of Design and Manufacturing</a>	3			<a href="#">ENR 358 Design of Mechanical Components and Systems</a>	3
<a href="#">ENR 402 Mechanical Systems and Measurements Lab</a>	3			<a href="#">ENR 359 Design of Mechanical Components and Systems Lab</a>	1
<a href="#">ENR 422</a> & <a href="#">ENR 423</a> Fluid Mechanics and Fluid Mechanics Lab	4			<a href="#">ENR 490 Engineering Design Project</a>	3
<a href="#">ENR 465 Engineering Design Seminar</a>	1			Science, Technology, and Society (K) course	3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
	18		3		17
<b>Total Credits 136-142</b>					

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 Mechanical Engineering 2020-2021: Option 2 - Humanities

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIB 101 Introduction to the Bible</a>	3	<a href="#">GES 147 Humanities II: Renaissance and Reformation</a>	4	<a href="#">COS 205 Scientific Computing</a>	3
<a href="#">GES 145 Humanities I: Greco-Roman through Middle Ages</a>	4			<a href="#">GES 140 Introduction to Wellbeing</a>	3
<a href="#">MAT 124M Calculus 1</a>	4			<a href="#">GES 244 Humanities III: European Enlightenment and American Culture to 1877</a>	4
<a href="#">PHY 292 General Physics I</a>	3			<a href="#">MAT 125 Calculus 2</a>	4
<a href="#">PHY 292D General Physics I Lab</a>	1			<a href="#">PHY 296 General Physics II</a>	3
				<a href="#">&amp; PHY 297 General Physics II Lab</a>	1
	15		4		18
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">CHE 208 &amp; CHE 208D</a> Accelerated General Chemistry and Accelerated General Chemistry Lab	4	<a href="#">ENR 160 Introduction to Engineering</a>	3	<a href="#">ENR 318 Engineering Thermal Science</a>	3
<a href="#">MAT 223 Multivariable Calculus</a>	3			<a href="#">PHY 312 &amp; PHY 313</a> Modern Physics and Modern Physics Lab	4
<a href="#">PHY 302 &amp; PHY 303</a> Electronics and Electronics Lab	4			Artistic Experience (A) course	0-3
<a href="#">GES 246 Humanities IV: Modern and Contemporary Western Culture</a>	4			World Cultures (U) course	3
				Leisure and Lifetime Sports (Q) course	1
				Cross-cultural Experience (Z) course	0-3
	15		3		11-17
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">MAT 224 Differential Equations with Linear Algebra</a>	4	<a href="#">ENR 265 Computer Aided Design and Engineering</a>	3	<a href="#">ENR 304 &amp; ENR 305</a> Engineering Materials and Engineering Materials Lab	4
<a href="#">ENR 260 Careers in Engineering and Physics Seminar</a>	1			<a href="#">ENR 308 Statics and Mechanics of Materials</a>	4
<a href="#">PHY 340 Mechanics</a>	4			<a href="#">ENR 348 Heat Transfer</a>	3
Contemporary Western Life and Thought (L) course	3			<a href="#">ENR 446 &amp; ENR 447</a> Control Systems and Control Systems Lab	4
Second Language (S) course	4				
	16		3		15
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">ENR 320 Mathematical Methods in Physics and Engineering</a>	4	Comparative Systems (G) course	3	<a href="#">ENR 352 &amp; ENR 353</a> Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
<a href="#">ENR 356 Fundamentals of Design and Manufacturing</a>	3			<a href="#">ENR 358 Design of Mechanical Components and Systems</a>	3
<a href="#">ENR 402 Mechanical Systems and Measurements Lab</a>	3			<a href="#">ENR 359 Design of Mechanical Components and Systems Lab</a>	1
<a href="#">ENR 422 &amp; ENR 423 Fluid Mechanics and Fluid Mechanics Lab</a>	4			<a href="#">ENR 490 Engineering Design Project</a>	3
<a href="#">ENR 465 Engineering Design Seminar</a>	1			Science, Technology, and Society (K) course	3
Interpreting Biblical Themes (J) course	3			Contemporary Christian Issues (P) course	3
	18		3		17
<b>Total Credits 138-144</b>					

1. 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.)