B.S. in Applied Physics (Mechanics Emphasis) Enhanced Academic Plans

B.S. in Applied Physics (Mechanics Emphasis) - CWILT Recommended Courses R.E.A.L. Experience Fall Semester 1 **Career Planning and Preparation Interim Semester 1** Spring Semester 1 PHY 292 & PHY 292D 1 General Physics I and GES 125 Introduction to the Creative PHY 296 & PHY 297 General Physics II and General PHASE 1: EXPLORE General Physics I Lab Arts Physics II Lab Create your R.E.A.L. Portfolio BIB 101 Introduction to the Bible GES 130 Christianity Western Culture Explore self, careers, & God's call Consider joining Sigma Zeta, Women in Physics and Engineering (WPE), or another club or GES 160 Inquiry Seminar GES 140 Introduction to Wellbeing Take a Career Assessment ministry of interest MAT 124M Calculus 1 MAT 125 Calculus 2 Research Careers: O*Net, Candid Careers, & Consider finding a mentor informational interviews w/ Alums Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering 14 4 15 MILESTONES: Consider study abroad options PHY 302 & PHY 303 Electronics and Electronics Lab World Cultures (U) course MAT 222 Differential Equations PHASE 1&2: EXPLORE/EXPERIENCE Continue adding artifacts and reflections to your R. FAI Portfolio COS 205 Scientific Computing PHY 312 & PHY 313 Finalize major if necessary & begin gaining Consider taking a leadership position with a Modern Physics and Modern Physics Lab experience student club. PHY 352 & PHY 353 Computer Methods in Physics MAT 223 Multivariable Calculus Create/update Resume & LinkedIn Consider going on a spring break mission trip. and Engineering and Computer Methods in Physics and Engineering Lab PHY 260 Careers in Engineering and Physics Seminar Second Language (S) course Build professional network (e.g. informational interviews) Contemporary Western Life and Thought (L) course Attend Spring Career Fair Obtain Internship or relevant job by summer 14 15 MILESTONES: Consider doing an online course over the summer **Recommended Courses Career Planning and Preparation** R.E.A.L. Experience Interim Semester 3 Fall Semester 3 **Spring Semester 3** CHE 208 & CHE 208D Accelerated General Chemistry Science, Technology, and Society (K) ENR 308 Statics and Mechanics of Materials PHASE 2: EXPERIENCE Review your R.E.A.L. Portfolio and prepare to and Accelerated General Chemistry Lab make it public course PHY 422 & PHY 423 (fall, odd years) Fluid Mechanics. PHY 340 Mechanics Use experiences to narrow down career choice & Consider studying abroad. Fluid Mechanics Lab develop relevant skills PHY 320 Mathematical Methods in Physics and PHY 365 Physics Research Seminar Participate in Fall & Spring Recruiting to obtain an Consider applying for a Student Leadership Engineering internship Position in Student Life THE 201 Christian Theology Comparative Systems (G) course Schedule a Mock Interview Consider being a TA for a favorite class. Interpreting Biblical Themes (J) course Explore Grad Schools & Take Entrance Exams (e. g. GRE) if necessary Expand Professional Network 15 15 MILESTONE: A minimum 3.2 GPA in your major is a good goal to strive for **Recommended Courses** R.E.A.L. Experience Fall Semester 4 Interim Semester 4 Spring Semester 4 **Career Planning and Preparation** PHY 424 & PHY 425 Materials and Devices and Interim Off PHY 410 (spring, odd years) Thermodynamics PHASE 3: EXECUTE Continue updating your public R.E.A.L. Portfolio Materials and Devices Lab with relevant experiences and reflection. PHY 490 Research Leisure and Lifetime Sport (Q) course Execute an effective job or grad school search Consider mentoring an underclassman. Contemporary Christian Issues (P) course Artistic Experience (A) course Participate in Fall and Spring Recruiting Cross-Cultural Experience (Z) course Electives Apply for Graduate School if necessary Electives Expand Professional Network 14-17 0 13-16 Total Credits: 125-131 . 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 E	mphasis) - Humanities			
	Recommended Courses			
Fall Semester 1	Interim Semester 1	Spring Semester 1	Career Planning and Preparation	R.E.A.L. Experience
PHY 292 & PHY 292D 1 General Physics I and General Physics I Lab	GES 147 Humanities II: Renaissance and Reformation	PHY 296 & PHY 297 General Physics II and General Physics II Lab	PHASE 1: EXPLORE	Create your R.E.A.L. Portfolio
GES 145 Humanities I: Greco-Roman through Middle Ages		GES 244 Humanities III: European Enlightenment and American Culture to 1877	Explore self, careers, & God's call	Consider joining Sigma Zeta, Women in Physics and Engineering (WPE), or another club or
MAT 124M Calculus 1		BIB 101 Introduction to the Bible	Take a Career Assessment	ministry of interest
GES 140 Introduction to Wellbeing		MAT 125 Calculus 2	Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums	Consider finding a mentor
			Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering	
15		15		
MILESTONES: Consider study abroad options				
	Recommended Courses			
Fall Semester 2	Interim Semester 2	Spring Semester 2	Career Planning and Preparation	R.E.A.L. Experience
COS 205 Scientific Computing	World Cultures (U) course	MAT 222 Differential Equations	PHASE 1&2: EXPLORE/EXPERIENCE	Continue adding artifacts and reflections to your R. E.A.L. Portfolio.
MAT 223 Multivariable Calculus		PHY 312 & PHY 313 Modern Physics and Modern Physics Lab	Finalize major if necessary & begin gaining experience	Consider taking a leadership position with a student club.
GES 246 Humanities IV: Modern and Contemporary Western Culture		PHY 352 & PHY 353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	Create/update Resume & LinkedIn	Consider going on a spring break mission trip.
PHY 302 & PHY 303 Electronics and Electronics Lab		Second Language (S) course	Build professional network (e.g. informational interviews)	
Electronics and Electronics Lab			Attend Spring Career Fair	
			Obtain Internship or relevant job by summer	
14	3	15		
	MI	ESTONES: Consider doing an online course over the	summer	
	Recommended Courses			
Fall Semester 3	Interim Semester 3	Spring Semester 3	Career Planning and Preparation	R.E.A.L. Experience
CHE 208 & CHE 208D Accelerated General Chemistry	Science, Technology, and Society (K)	PHY 365 Physics Research Seminar	PHASE 2: EXPERIENCE	Review your R.E.A.L. Portfolio and prepare to
and Accelerated General Chemistry Lab	course			make it public.
and Accelerated General Chemistry Lab PHY 260 Careers in Engineering and Physics Seminar		ENR 308 Statics and Mechanics of Materials	Use experiences to narrow down career choice & develop relevant skills	
and Accelerated General Chemistry Lab				make it public.
and Accelerated General Chemistry Lab PHY 260 Careers in Engineering and Physics Seminar PHY 320 Mathematical Methods in Physics and		ENR 308 Statics and Mechanics of Materials	develop relevant skills Participate in Fall & Spring Recruiting to obtain an	make it public. Consider studying abroad. Consider applying for a Student Leadership
and Accelerated General Chemistry Lab PHY 260 Careers in Engineering and Physics Seminar PHY 320 Mathematical Methods in Physics and Engineering PHY 422 & PHY 423 Fluid Mechanics and Fluid		ENR 308 Statics and Mechanics of Materials PHY 340 Mechanics	develop relevant skills Participate in Fall & Spring Recruiting to obtain an internship	make it public. Consider studying abroad. Consider applying for a Student Leadership Position in Student Life.
and Accelerated General Chemistry Lab PHY 260 Careers in Engineering and Physics Seminar PHY 320 Mathematical Methods in Physics and Engineering PHY 422 & PHY 423 Fluid Mechanics and Fluid Mechanics Lab	course	ENR 308 Statics and Mechanics of Materials PHY 340 Mechanics Comparative Systems (G) course Interpreting Biblical Themes (J) course	develop relevant skills Participate in Fall & Spring Recruiting to obtain an internship Schedule a Mock Interview Explore Grad Schools & Take Entrance Exams (e. g. GRE) if necessary Expand Professional Network	make it public. Consider studying abroad. Consider applying for a Student Leadership Position in Student Life.
and Accelerated General Chemistry Lab PHY 260 Careers in Engineering and Physics Seminar PHY 320 Mathematical Methods in Physics and Engineering PHY 422 & PHY 423 Fluid Mechanics and Fluid	course	ENR 308 Statics and Mechanics of Materials PHY 340 Mechanics Comparative Systems (G) course Interpreting Biblical Themes (J) course	develop relevant skills Participate in Fall & Spring Recruiting to obtain an internship Schedule a Mock Interview Explore Grad Schools & Take Entrance Exams (e. g. GRE) if necessary Expand Professional Network	make it public. Consider studying abroad. Consider applying for a Student Leadership Position in Student Life.
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and Accelerated General Chemistry Lab PHY 260 Careers in Engineering and Physics Seminar PHY 320 Mathematical Methods in Physics and Engineering PHY 422 & PHY 423 Fluid Mechanics and Fluid Mechanics Lab	course	ENR 308 Statics and Mechanics of Materials PHY 340 Mechanics Comparative Systems (G) course Interpreting Biblical Themes (J) course	develop relevant skills Participate in Fall & Spring Recruiting to obtain an internship Schedule a Mock Interview Explore Grad Schools & Take Entrance Exams (e. g. GRE) if necessary Expand Professional Network	make it public. Consider studying abroad. Consider applying for a Student Leadership Position in Student Life. Consider being a TA for a favorite class. R.E.A.L. Experience Continue updating your public R.E.A.L. Portfolio
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and Accelerated General Chemistry Lab PHY 260 Careers in Engineering and Physics Seminar PHY 320 Mathematical Methods in Physics and Engineering PHY 422 & PHY 423 Fluid Mechanics and Fluid Mechanics Lab	course Courses Course Courses Course Courses Courses Course Courses Course Course Courses Courses Courses Course Courses Courses Course Cour	ENR 308 Statics and Mechanics of Materials PHY 340 Mechanics Comparative Systems (G) course Interpreting Biblical Themes (J) course 15 ONE: A minimum 3.2 GPA in your major is a good goo Spring Semester 4 PHY 410 Thermodynamics Leisure and Lifetime Sport (Q) course	develop relevant skills Participate in Fall & Spring Recruiting to obtain an internship Schedule a Mock Interview Explore Grad Schools & Take Entrance Exams (e. g. GRE) if necessary Expand Professional Network al to strive for Career Planning and Preparation PHASE 3: EXECUTE Execute an effective job or grad school search	make it public. Consider studying abroad. Consider applying for a Student Leadership Position in Student Life. Consider being a TA for a favorite class. R.E.A.L. Experience Continue updating your public R.E.A.L. Portfolio
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