

**B.S. in Software Engineering - CWILT**

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 1	Interim Semester 1		Spring Semester 1				
COS 100 Introduction to Programming	GES 160 Inquiry Seminar		COS 105 Computer Science 1	PHASE 1: EXPLORE		Create your R.E.A.L. Portfolio	
MAT 124M* Calculus 1			GES 125 Introduction to the Creative Arts	<i>Explore self, careers, &amp; God's call</i>		Consider joining a club or ministry of interest	
GES 140 Introduction to Wellbeing			Second Language (S) Course*	Take a Career Assessment		Consider finding a mentor	
GES 130 Christianity Western Culture			BIB 101 Introduction to the Bible	Research Careers: O*Net, Candid Careers, & informational			
	14		3	15	Gain Experience: Part-time job; Campus Involvement (e.g.		
<b>MILESTONES: Consider study abroad options</b>							

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 2	Interim Semester 2		Spring Semester 2				
MAT 241 Discrete Mathematics	ENR 160 Introduction to Engineering		COS 214 Computer Architecture	PHASE 1&2: EXPLORE/EXPERIENCE		Continue adding artifacts and reflections to your R.E.A.L.	
Contemporary Western Life and Thought			COS 216 Data Structures and Algorithms	<i>Finalize major if necessary &amp; begin gaining experience</i>		Consider taking a leadership position with a student club.	
COS 212 Computer Science 2			Leisure and Lifetime Sport (Q) course (0-3 credits)	Create/update Resume & LinkedIn		Consider going on a spring break mission trip.	
Laboratory Science (D) course			MAT 211 Linear Algebra	Build professional network (e.g. informational interviews)			
			THE 201 Christian Theology	Attend Spring Career Fair			
			Artistic Activity (A) course (0-3 credits)	Obtain Internship or relevant job by summer			
	14		3	15			
<b>MILESTONES: Consider doing an online course over the summer</b>							

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 3	Interim Semester 3		Spring Semester 3				
World Cultures (U) course	COS 450 Humans and Computers		BUS 334 Principles of Project Management	PHASE 2: EXPERIENCE		Review your R.E.A.L. Portfolio and prepare to make it public.	
COS 301 Operating Systems			Comparative Systems (G) course	<i>Use experiences to narrow down career choice &amp; develop</i>		Consider studying abroad.	
MAT 207M Statistical Analysis			COS 386 Data Communications and Computer Networks	Participate in Fall & Spring Recruiting to obtain an internship		Student Life.	
COS 313 (fall, even # years) Database Systems			Cross-cultural Experience (Z) (0-3 credits)	Schedule a Mock Interview		Consider being a TA for a favorite class.	
			COS 420 Software Process	Explore Grad Schools & Take Entrance Exams (e.g. GRE) if			
	13		3	13	Expand Professional Network		
<b>MILESTONE: A minimum 3.2 GPA in your major is a good goal to strive for</b>							

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 4	Interim Semester 4		Spring Semester 4				
COS 477 Software Engineering	Interim off		Interpreting Biblical Themes (J) course	PHASE 3: EXECUTE		Continue updating your public R.E.A.L. Portfolio with	
Electives			COS 371 Organization of Programming Languages	<i>Execute an effective job or grad school search</i>		Consider mentoring an underclassman.	
COS 318 Web Programming			ENR 490 Engineering Design Project	Participate in Fall and Spring Recruiting			
ENR 465 Engineering Design Seminar			Contemporary Christian Issues (P) course	Apply for Graduate School if necessary			
Science, Technology, and Society (K) course			Elective	Expand Professional Network			
	14		0	15			

**Total Credits: 122**

\*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.)

**B.S. in Software Engineering - Humanities**

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 1	Interim Semester 1	Spring Semester 1					
COS 100 Introduction to Programming	GES 147 Humanities II: Renaissance and Reformation	COS 105 Computer Science 1		PHASE 1: EXPLORE		Create your R.E.A.L. Portfolio	
MAT 124M* Calculus 1		Second Language (S) course		Explore self, careers, & God's call		Consider joining a club or ministry of interest	
GES 140 Introduction to Wellbeing		GES 244 Humanities III: European Enlightenment and American		Take a Career Assessment		Consider finding a mentor	
GES 145 Humanities I: Greco-Roman through Middle Ages		BIB 101 Introduction to the Bible		Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums			
	14	4		Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering			
<b>MILESTONES: Consider study abroad options</b>							

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 2	Interim Semester 2	Spring Semester 2					
COS 212 Computer Science 2	ENR 160 Introduction to Engineering	MAT 211 Linear Algebra		PHASE 1&2: EXPLORE/EXPERIENCE		Continue adding artifacts and reflections to your R.E.A.L. Portfolio	
MAT 241 Discrete Mathematics		COS 214 Computer Architecture		Finalize major if necessary & begin gaining experience		Consider taking a leadership position with a student club.	
Laboratory Science (D) course		COS 216 Data Structures and Algorithms		Create/update Resume & LinkedIn		Consider going on a spring break mission trip.	
GES 246 Humanities IV: Modern and Contemporary Western Culture		World Cultures (U) course		Build professional network (e.g. informational interviews)			
		Artistic Activity (A) course (1-3 credits)		Attend Spring Career Fair			
		Leisure and Lifetime Sport (Q) course		Obtain Internship or relevant job by summer			
	15	3				15	
<b>MILESTONES: Consider doing an online course over the summer</b>							

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 3	Interim Semester 3	Spring Semester 3					
COM 248 Organizational Communication	COS 450 Humans and Computers	COS 420 Software Process		PHASE 2: EXPERIENCE		Review your R.E.A.L. Portfolio and prepare to make it public.	
COS 301 Operating Systems		Cross-cultural Experiences (Z) course		Use experiences to narrow down career choice & develop relevant skills		Consider studying abroad.	
MAT 207M Statistical Analysis		COS 386 Data Communications and Computer Networks		Participate in Fall & Spring Recruiting to obtain an internship		Consider applying for a Student Leadership Position in Student Life.	
COS 313 Database Systems		Interpreting Biblical Themes (J) course		Schedule a Mock Interview		Consider being a TA for a favorite class.	
		BUS 334 Principles of Project Management		Explore Grad Schools & Take Entrance Exams (e.g. GRE) if necessary			
	13	3		Expand Professional Network		13	
<b>MILESTONE: A minimum 3.2 GPA in your major is a good goal to strive for</b>							

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 4	Interim Semester 4	Spring Semester 4					
Comparative Systems (G) course	Interim Off	COS 371 Organization of Programming Languages		PHASE 3: EXECUTE		Continue updating your public R.E.A.L. Portfolio with relevant experiences and reflection	
COS 477 Software Engineering		Contemporary Christian Issues (P) course		Execute an effective job or grad school search		Consider mentoring an underclassman.	
Science, Technology, and Society (K) course		ENR 490 Engineering Design Project		Participate in Fall and Spring Recruiting			
ENR 465 Engineering Design Seminar		Electives		Apply for Graduate School if necessary			
COS 318 Web Programming				Expand Professional Network			
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