

B.S. in Computer Science Enhanced Academic Plan

B.S. in Computer Science - CWILT

Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 1		Interim Semester 1		Spring Semester 1			
COS 100 or 205 Introduction to Programming or Scientific Computing MAT 124M Calculus 1		GES 160 Inquiry Seminar		COS 105 Computer Science 1 MAT 125 Calculus 2	PHASE 1: EXPLORE <i>Explore self, careers, & God's call</i>		Create your R.E.A.L. Portfolio Consider joining Sigma Zeta, or another club or ministry of interest
GES 130 Christianity Western Culture GES 140 Introduction to Wellbeing				BIB 101 Introduction to the Bible Second Language (S) course*1	Take a Career Assessment Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering		Consider finding a mentor
14				3			15
MILESTONES: Consider study abroad options							
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 MAT 241 Discrete Mathematics GES 125 Introduction to the Creative Arts Laboratory Science (D) course		THE 201 Christian Theology		COS 214 Computer Architecture COS 216 Data Structures and Algorithms MAT 211 Linear Algebra Contemporary Western Life and Thought (L) course Elective	PHASE 1&2: EXPLORE/EXPERIENCE <i>Finalize major if necessary & begin gaining experience</i> Create/update Resume & LinkedIn Build professional network (e.g. informational interviews) Attend Spring Career Fair Obtain Internship or relevant job by summer		Continue adding artifacts and reflections to your R.E.A.L. Portfolio. Consider taking a leadership position with a student club. Consider going on a spring break mission trip.
3				3			16
MILESTONES: Consider doing an online course over the summer							
Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 3		Interim Semester 3		Spring Semester 3			
COS 301 Operating Systems COS 313 Database Systems COS 318 Web Programming MAT 330 Probability and Statistics World Cultures (U) course		Interim Off		COS 386 Data Communications and Computer Networks COS 389 Artificial Intelligence Interpreting Biblical Themes (J) course Cross-Cultural Experience (Z) course Elective	PHASE 2: EXPERIENCE <i>Use experiences to narrow down career choice & develop relevant skills</i> 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		Review your R.E.A.L. Portfolio and prepare to make it public. Consider studying abroad. Consider applying for a Student Leadership Position in Student Life. Consider being a TA for a favorite class.
16				0			12-15
MILESTONE: A minimum 3.2 GPA in your major is a good goal to strive for							
Recommended Courses					Career Planning and Preparation		R.E.A.L. Experience
Fall Semester 4		Interim Semester 4		Spring Semester 4			
COS 320 (fall, odd years) Computer Graphics Programming COS 477 Software Engineering Comparative Systems (G) course Leisure and Lifetime Sports (Q) course Elective*2		COS 450 Humans and Computers		COS 371 (spring, even years) Organization of Programming Lang Science, Technology, and Society (K) course Contemporary Christian Issues (P) course Artistic Experience (A) course Elective*2	PHASE 3: EXECUTE <i>Execute an effective job or grad school search</i> Participate in Fall and Spring Recruiting Apply for Graduate School if necessary Expand Professional Network		Continue updating your public R.E.A.L. Portfolio with relevant experiences and reflection. Consider mentoring an underclassman.
13-14				3			12-15
Total Credits: 122-129							

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

2. Choose one of: MAT 344, MAT 376, or PHY 352/PHY 353 (Note: PHY 352/PHY 353 will require consent of instructor unless prerequisites are satisfied. Please see catalog for details.)

This program assumes a student will use MAT 124M and GES 334K to meet the general education Mathematics and Science, Technology, and Society requirements.

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 Computer Science Enhanced Academic Plan

B.S. in Computer Science - Humanities				
Recommended Courses				
Fall Semester 1	Interim Semester 1	Spring Semester 1	Career Planning and Preparation	R.E.A.L. Experience
COS 100 or 205 Introduction to Programming or Scientific Computing	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		MAT 125 Calculus 2	<i>Explore self, careers, & God's call</i>	Consider joining Sigma Zeta, or another club or ministry of interest
GES 140 Introduction to Wellbeing		GES 244 Humanities III: European Enlightenment and American Culture to 1877	Take a Career Assessment	Consider finding a mentor
GES 145 Humanities I: Greco-Roman through Middle Ages		Second Language (S) course*1	Research Careers: O*Net, Candid Careers, & informational interviews w/ Alums	
14	4	16	Gain Experience: Part-time job; Campus Involvement (e.g. student club); Volunteering	
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 212 Computer Science 2	World Cultures (U) course	COS 214 Computer Architecture	PHASE 1&2: EXPLORE/EXPERIENCE	Continue adding artifacts and reflections to your R.E.A.L. Portfolio.
MAT 241 Discrete Mathematics		COS 216 Data Structures and Algorithms	<i>Finalize major if necessary & begin gaining experience</i>	Consider taking a leadership position with a student club.
BIB 101 Introduction to the Bible		MAT 211 Linear Algebra	Create/update Resume & LinkedIn	Consider going on a spring break mission trip.
GES 246 Humanities IV: Modern and Contemporary Western Culture		Laboratory Science (D) course	Build professional network (e.g. informational interviews)	
14	3	15	Attend Spring Career Fair	
			Obtain Internship or relevant job by summer	
MILESTONES: 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
COS 301 Operating Systems	Interim Off	Interpreting Biblical Themes (J) course	PHASE 2: EXPERIENCE	Review your R.E.A.L. Portfolio and prepare to make it public.
COS 313 (fall, even years) Database Systems		COS 386 (Spring, odd years)	<i>Use experiences to narrow down career choice & develop relevant skills</i>	Consider studying abroad.
COS 318 Web Programming		COS 389 (Spring, odd years)	Participate in Fall & Spring Recruiting to obtain an internship	Consider applying for a Student Leadership Position in Student Life.
MAT 330 Probability and Statistics		Comparative Systems (G) course	Schedule a Mock Interview	Consider being a TA for a favorite class.
Contemporary Western Life and Thought (L) course		Cross-Cultural Experience (Z) course	Explore Grad Schools & Take Entrance Exams (e.g. GRE) if necessary	
16	0	15	Expand Professional Network	
MILESTONES: A minimum 3.2 GPA in your major is a good goal to strive for				
Recommended Courses				
Fall Semester 4	Interim Semester 4	Spring Semester 4	Career Planning and Preparation	R.E.A.L. Experience
COS 320 (Fall, odd years)	COS 450 (Interim, even years)	COS 371 (Spring, even years)	PHASE 3: EXECUTE	Continue updating your public R.E.A.L. Portfolio with relevant experiences and reflection.
COS 477 (Fall, odd years)		Science, Technology, and Society (K) course	<i>Execute an effective job or grad school search</i>	Consider mentoring an underclassman.
Electives*2		Contemporary Christian Issues (P) course	Participate in Fall and Spring Recruiting	
Comparative Systems (G) course		Artistic Experience (A) course	Apply for Graduate School if necessary	
15	3	12-15	Expand Professional Network	
Total Credits: 127-130				
*1 Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)				
2. Choose one of: MAT 344, MAT 376, or PHY 352/PHY 353 (Note: PHY 352/PHY 353 will require consent of instructor unless prerequisites are satisfied. Please see catalog for details.)				
This program assumes a student will use MAT 124M and GES 334K to meet the general education Mathematics and Science, Technology, and Society requirements.				
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.)				