



College of Natural Sciences & Mathematics
Bachelor of Science - Computer Science
 (Software Design Option)
Four-Year Academic Map – 2014-2015

Year 1	Semester 1				Semester 2				Total	
	COSC 1410	Introduction to Computer Science I	4		COSC 1320	Introduction to Computer Science II	3			
	ENGL 1303	First Year Writing I	3		ENGL 1304	First Year Writing II	3			
	HIST 1377	The United States to 1877	3		HIST 1378	The United States Since 1877	3			
	MATH 1431	Calculus I	4		MATH 1432	Calculus II	4			
	POLS 1336	US & Texas Constitutions & Politics	3		POLS 1337	US Gov: Congress, President, & Courts	3			
	Semester Hours			17	Semester Hours			16		33

Year 2	Semester 1				Semester 2					
	COSC 2320	Data Structures	3		COSC 3320	Algorithms & Data Structures	3			
	COSC 2410	Computer Organization & Programming	4		COSC 3330	Computer Architecture	3			
	MATH 2331	Linear Algebra	3		CORE	Social & Behavioral Sciences	3			
		Natural Science Approved Course	3		MATH 3336	Discrete Mathematics	3			
		Natural Science Laboratory	1			Natural Science Approved Course	3			
						Natural Science Laboratory	1			
Semester Hours			14	Semester Hours			16		30	

Year 3	Semester 1				Semester 2					
	COSC 3340	Introduction to Automata and Computability	3		COSC 3380	Design of File and Database Systems	3			
	COSC 4351	Fundamentals of Software Engineering	3		MATH 3339	Statistics for the Sciences	3			
	MATH 3338	Probability	3		CORE	Writing in the Disciplines	3			
	CORE	Language, Philosophy & Culture	3			Natural Science Approved Course	3			
		Natural Science Approved Course	3		Elective	Computer Science Approved Electives (3000 or 4000 level)	3			
	Semester Hours			15	Semester Hours			15		30

Year 4	Semester 1				Semester 2					
	COSC 4330	Fundamentals of Operating Systems	3		COSC 4211	Computer Scientists and Society	2			
	COSC 4353	Software Design	3		COSC 4354	Software Development Practices	3			
	CORE	Creative Arts	3		Elective	Elective Courses	4			
	Elective	Elective Courses	3		Elective	Computer Science Approved Electives (3000 or 4000 level)	6			
	Semester Hours			12	Semester Hours			15		27
										120

Students should meet with their academic advisor to formulate their own plan.

