

Concentration in Software Engineering

Course Requirements		Total	65 credit hours
Course #	Course Title		Hours
COSC 3312	Database and Information Retrieval		3
COSC 3327	Data Mining		3
COSC 4366	Computer Graphics		3
COSC 4311	Software Engineering I		3
COSC 4322	Software Engineering II		3
COSC 4368	Introduction to Computational Science		3
Additional Mathematics Courses			
MATH 2318	Linear Algebra		3
MATH 3336	Numerical Techniques		3
		Total	24
3 higher level COSC electives			9
TOTAL for the Software Engineering Concentration			65

SUGGESTED COURSE SEQUENCE FOR COMPUTER SCIENCE
TOTAL SEMESTER HOURS REQUIRED TO GRADUATE = 120

YEAR 1							
Fall				Spring			
UNIV	1101	Freshman Seminar I	1	ENGL	1302	College Rhetoric and Composition	3
ENGL	1301	Introduction to College Composition	3	MATH	1342	Statistics	3
COSC	1311	Foundations of Computer Science	3	COSC	1323	Programming Foundations II	3
COSC	1312	Programming Foundations I	3	COMM	1315	Public Speaking	3
KINE	1304/1338	Health and Wellness	3	PSCI	1301 or 1302	US or Texas Government	3
COSC	1300/1311	Introduction to Computers	3	KINE		Activity Course	1
				UNIV	1102	Freshman Seminar II	1
Total			16	Total			17
YEAR 2							
Fall				Spring			
PHYS	2425	Physics I	4	PHYS	2426	Physics II	4
COSC	2311	Java I	3	COSC	2322	Java II	3
COSC	2313	Data Structures	3	COSC	2326	Enterprise Computing	3
MATH	2413	Calculus I *	4	MATH	2414	Calculus II	4
Math	2305	Discrete Math	3	Social Behavior		Introduction to Sociology Introduction to Psychology, Social Problems	3
Total			17	Total			17
YEAR 3							
Fall				Spring			
COSC	3312	Database & Info Retrieval	3	COSC	3321	Computer Organization	3
Language I		Foreign Language	3	COSC	3427	Computer Networks and Distributed Systems	4
PHIL	2301 or	Religion or Philosophy	3			(Study Abroad Option)	3
RELI	2302			ENGL	2331	World Literature	3
Fine Arts		Musicianship; Introduction to Arts, etc. (Study Abroad Option)	3				
BUSI	3113	Professional Develop	1				
Total			13	Total			13
YEAR 4							
Fall				Spring			
COSC	4311	Software Engineering, I	3	COSC	4223	Software Engineering II	3
COSC	4367	Special Topic	3	MATH	3336	Numerical Techniques	3
MATH	2318	Linear Algebra	3	Elective		Diversity (Study Abroad Option)	3
HIST	1301 or 1302	US History I or II	3				
COSC	4308	Computer Science Internship	3	Diversity		African American History	3
Total			15	Total			12

* Assuming student tests into MATH 2413 Calculus I