

Present Major Requirements for Software Engineering (56-57 sh)		Proposed Major Requirements for Software Engineering (73-74 sh)	
<u>Core</u>	27-28sh	<u>Core</u>	24-25sh
CSC 212 Principles of Programming	3	CSC 212 Principles of Programming	3
CSC 221 Foundations of Comp Science	3	CSC 221 Foundations of Comp Science	3
CSC 241 Abstract Data Types & Prog	3	CSC 241 Abstract Data Types & Prog	3
CSC 344 Programming Languages	3	CSC 344 Programming Languages	3
CSC 365 Data Structures & File Processing	3	CSC 365 Data Structures & File Processing	3
CSC 380 Software Engineering	3	CSC 380 Software Engineering	3
CSC 222 Computer Org and Programming	3-4	CSC 222 Computer Org and Programming	3-4
-- OR --		-- OR --	
CSC 322 Systems Programming		CSC 322 Systems Programming	
CSC 480 Software Design	3	CSC 480 Software Design	3
CSC 459 Data Base Management Systems	3		
<u>Electives</u>	15 sh	<u>Application Domains</u>	9 sh
Choose from approved list		One of the following sequences of courses:	
		HCI -- 420 (User Interfaces), 435 (Web Services) and 454 (Simulation)	
<u>Cognates</u>	14 sh	Middleware -- 375 (Parallel Computing), 436 (Networked Systems) and 445 (Networking)	
MAT 210 Calculus I	4	<u>Electives</u>	6 sh
MAT 220 Calculus II	4	Choose from an approved list (courses must be different from courses picked for the Application Domain).	
MAT 215 Introduction to Discrete Math	3		
MAT 318 Statistics in the Sciences	3	<u>Cognates</u>	28 sh
-- OR --		MAT 210 Calculus I	4
MAT 354 Mathematical Statistics		MAT 220 Calculus II	4
		MAT 215 Introduction to Discrete Math	3
		MAT 318 Statistics in the Sciences	3
		-- OR --	
		MAT 354 Mathematical Statistics	
		PHY 112 General University Physics I	4
		PHY 213 General University Physics I	4
		<u>Two additional courses in science or mathematics under advisement</u>	6
		<u>Capstone</u>	6 sh
		CSC495 SE Project Seminar I	3
		CSC496 SE Project Seminar II	3
		Note: a C- or better is required in core and cognates.	