

BS in Software Engineering: Sample 4-Year Plan

Freshman Year

First semester	Credit	Second Semester	Credit
COSC 112 Computer Science I	4	COSC 113 Computer Science II	4
MATH 225 Calculus I	4	MATH 226 Calculus II	4
ENGL 101 Expository Writing	3	ENGL 102 Argument and Research	3
FRSE 101 Freshman Seminar	3	HIST 114 or 115 African American History	3
COSC 160 Eng. Professionalism and Career Guidance	1	COMM 101 Oral Communication	3
<i>Total:</i>	15	<i>Total:</i>	17

Sophomore Year

First semester	Credit	Second Semester	Credit
COSC 208 Discrete Structures	3	Free Electives	2
COSC 214 Data Structures and Algorithms	4	MATH 228 Linear Algebra	3
COSC 162 Intro. to Software Engineering	3	BIOL 102 Introductory Biology (Life Science)	4
MATH 155 Probability and Statistics	3	COSC 260 Soft. Requirement Elicitation & Spec.	3
Social /Behavioral Science Gen Ed Elective	3	Health and Wellness Elective	3
<i>Total:</i>	16	<i>Total:</i>	15

Junior Year

First semester	Credit	Second Semester	Credit
COSC 262 Software Processes and Tools	3	COSC 414 Operating Systems	3
COSC 284 Computer Architecture and Organization	3	COSC 362 Software Architecture and Component Designs	3
Science with NO lab	3	COSC 365 Web and Mobile Software Applications Development	3
COSC 360 Software Verification and Quality Assurance	3	Arts and Humanities Gen Ed Elective	3
ENGL 362 Technical Writing for Computer Science	3	COSC 431 Database Management	3
<i>Total:</i>	15	<i>Total:</i>	15

Senior Year

First semester	Credit	Second Semester	Credit
COSC 370 Computer Ethics Social and Legal Issues	3	COSC 498 SWE Capstone II	3
COSC 462 Developing Secure Software with DevSecOps	3	MATH 305 Prelude to Advanced MATH	3
COSC 497 SWE Capstone I	3	Software Engineering Elective	3
MATH 252 OR MATH 265	3	Software Engineering Elective	3
		Software Engineering Elective	3
<i>Total:</i>	12	<i>Total:</i>	15