

Engineering topics		U.A. WHITAKER SCHOOL OF ENGINEERING BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING (B.S.) 120 Credits						Engineering topics	
		Freshman Year							
		Semester 1			Semester 2				
		Course Number	Course Title	CR	Course Number	Course Title	CR		
1 1		ENC 1101	Composition I (W)	3	ENC 1102	Composition II (W)	3		
		MAC 2311	Calculus I	4	MAC 2312	Calculus II	4		
		COP 1500	Intro to Computer Science	3	EGN 1041C	Computational Tools for Eng	2	2	
		EGN 1006L	Intro to Engineering Prof.	1	HUM 2510	Understanding Visual & Performing Arts	3		
			Science for science majors	4		Social Science**	3		
			Total	15		Total	15		
		Sophomore Year							
		Semester 3			Semester 4				
		Course Number	Course Title	CR	Course Number	Course Title	CR		
3		PHY 2048C	General Physics I	4	PHY 2049C	General Physics II	4		
		COP 2006	Intro to Programming	3	MAD 3107	Discrete Mathematics	3		
		STA 2037	Statistics with Calculus	3	COP 2001	Programming Methodology	3	3	
			*Math or science elective	3	CDA 3200	Digital Systems	3	3	
				Total	13		Total	13	
		Summer term*							
			Humanities**	3					
			Humanities**	3					
			Social Science (recommend ECO 2023)	3					
			Total	9					
		**One of these courses must be a writing course to satisfy the Gordon Rule (W).							
		NOTE: Students must earn at least 9 semester hours by attending one or more summer sessions at a State University System member institution.							
		Junior Year							
		Semester 5			Semester 6				
		Course Number	Course Title	CR	Course Number	Course Title	CR		
3 3 3 3		CEN 3031	Software Engng Fundamentals	3	CEN 3073	Software Specifications	3	3	
		CDA 3104	Computer Org & Assem Lang Prog	3	COP 3530	Data Structures & Algorithms	3	2	
		COP 3003	Object-Oriented Programming	3	EGN 3641C	Engineering Entrepreneurship	3	2	
			*SE Elective	3		*SE Elective	3		
			Unrestricted Elective (or EGN 3641C)	3		Unrestricted Elective	3		
			Total	15		Total	15		
		Senior Year							
		Semester 7			Semester 8				
		Course Number	Course Title	CR	Course Number	Course Title	CR		
3 3 3		CEN 4065	Software Architecture & Design	3	CEN 4935	Senior Software Engr Project	3	3	
		CNT 4104	Software Proj Comp Networks	3	COP 4610	Operating Systems	3	3	
		CEN 4072	Software Testing	3	IDS 3920	University Colloquium (W)	3	3	
			Unrestricted Elective	4		Unrestricted Elective	3		
			Total	13		Total	12		
26	<i>Minimum total engineering topics = 45</i>						21		

Total Hours = 120

* The Software Engineering Technical Elective and Math/Science electives must be approved by the Academic Advisor for engineering in consultation with the faculty.

Engineering common core - engineering courses