

Software Engineering

Spring 2026 UCC26-1499

	Fall		Spring		
Freshman	SWEN 100 Intro to Software Engineering	4	ENGR 120 Programming for Engineers	3	
	UNIV 101 SU Freshman Seminar	3	MATH 225 Discrete Mathematics	4	
	MATH 211 Calculus 1	4	COST 100 Intro to Human Communications	3	
	ENGL114 WIFYS	3	HIST 105 Historical Foundation Global Cultures	3	
			Gen Ed	3	
		14		16	30
Sophomore	SWEN 200 Design Patterns	4	CMSC 471 Database Management	4	
	SWEN 300 Crafting Quality Code	4	Free Elective	4	
	Math/Sci Elective**	3	MATH 375 Prob & Stat for Engineers	4	
	Gen Ed	3	Gen Ed	3	
			ENGR 200 Engineering Seminar II	1	
		14		16	60
Junior	SWEN 400 Large Scale Architectures*	4	CMSC/CMPE/SWEN Elective	4	
	CMPE 220 Computer Organization	4	SWEN 415 Interdisciplinary Development	4	
	Math/Sci Elective**	4	CMPE 320 Operating Systems	4	
	Gen Ed	3	Gen Ed	3	
			ENGR 300 Engineering Seminar 3	1	
		15		16	91
Senior	SWEN 306 Memory Safe Languages*	4	SWEN 420 Extreme Programming	4	
	Math/Sci Elective**	3	CMSC 310 Design & Analysis of Algorithms	4	
	Science Gen Ed (BIOL161, CHEM121/123, or PHYS205/124)	4	Science Gen Ed (BIOL161, CHEM121/123, or PHYS205/124)	4	
	Gen Ed	3	Gen Ed	3	
		14		15	120

* SWEN306: Every odd Fall; SWEN400: Every even Fall

** Math/Sci Elective: A total of ten credits beyond general education requirements from these courses:

BIOL 161, BIOL 162	CHEM121/123, CHEM122/125	PHYS205/124, PHYS206/126	MATH 219, MATH317, MATH318, MATH319, MATH320, MATH326, MATH410, MATH421, MATH450
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Even Academic Year: Academic years that have an even fall: 2024-2025, 2026-2027