Software Engineering

Spring 2023

	Fall		Spring		
Freshman	SWEN 100 Intro to Software Engineering	4	ENGR 120 Programming for Engineers	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	
	UNIV 101 SU Freshman Seminar	3	Gen Ed	3	
		14		16	30
Sophomore	SWEN 200 Design Patterns	4	CMSC 471 Database Management	4	
	SWEN 300 Crafting Quality Code	4	SWEN 305 Functional Data Structures**	4	
	Math/Sci Elective****	3	MATH 375 Prob & Stat for Engineers	4	
	Gen Ed	3	Gen Ed	3	
			ENGR 200 Engineeering Seminar II	1	
		14		16	60
Upper Division Even	SWEN 400 Large Scale Architectures**	4	CMSC/CMPE/SWEN Elective	4	
	CMPE 220 Computer Organization	4	Team Project Course*	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
Upper Division Odd	ENGR 311 Managing Dev Processes**	3	Team Project Course*	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	
	Free Elective	1			
		14		15	120

* Team Project Course: SWEN 415 in your Junior Year and SWEN 420 in your Senior Year. Both offered every Spring
** SWEN305: Every odd Spring; SWEN400: Every even Fall; ENGR311: Every odd Fall
*** This will be most useful in your Junior Year
**** 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

Upper Division Even: Academic years that have an even fall: 2024-2025, 2026-2027
Upper Division Odd: Academic years that have an odd fall: 2025-2026, 2027-2028