

B.S. Computer Science, Application Concentration

Fall 2022

	Fall		Spring		
Freshman	CSC 110 Computer Science I	4	CSC 111 Computer Science II	4	
	MAT 211 Calculus 1 ^a	4	MAT 225 Discrete Math	4	
	ENG114 WIFYS	3	HCS 100 Intro to Human Communications	3	
	UNIV 101	3	HIS 105 Historical Foundations of Global Cultures	3	
		14		14	28
Sophomore	SWE 200 Design Patterns	4	CSC 310 Design & Analysis of Algorithms	4	
	CMPE 220 Computer Organization	4	CMPE 320 Operating Systems	4	
	Gen Ed 1	3	Gen Ed 2	3	
	Lab Science I ****	4	Lab Science II ****	3/4	
		15		14/15	57/58
Junior (Even AY)*	MAT 217 Statistics***	4	Interdisciplinary Elective	3/4	
	MAT 318 Elementary Linear Algebra	3	CSC/SWE/CMPE/EE 300+ Elective	4	
	CSC 431 Networks	4	CSC 498 Sr. Research I	2	
	Gen Ed 3	3	Gen Ed 5	3	
	Gen Ed 4	3	Free Elective 1	4/3	
		17		16	90/91
Senior (Odd AY)**	CSC 462 Artificial Intelligence	4	Free Elective 2	3	
	CSC 499 Sr. Research II	2	CSC 471 Database Management	3	
	CSC 410 Theory of Computing	3	Free Elective 3	3	
	Gen Ed 6	3	Free Elective 4*****	5/4	
	Gen Ed 7	3			
		15		14/13	120
Junior (Odd AY)*	CSC 462 Artificial Intelligence	4	MAT 217 Statistics***	4	
	MAT 318 Elementary Linear Algebra	3	CSC 471 Database Management	3	
	CSC 410 Theory of Computing	3	CSC 498 Sr. Research I	2	
	Gen Ed 3	3	Gen Ed 5	3	
	Gen Ed 4	3	Gen Ed 6	3	
		16		15	88/89
Senior (Even AY)**	CSC/SWE/CMPE/EE 300+ Elective	4	CSC 431 Networks	4	
	CSC 499 Sr. Research II	2	Interdisciplinary Elective	3/4	
	Gen Ed 7	3	Free Elective 3	3	
	Free Elective 1	3	Free Elective 4*****	5/4	
	Free Elective 2	5/4			
		17/16		15	120

* (Even AY) Academic years that have an even fall: 2022-2023, 2024-2025, 2026-2027

** (Odd AY): Academic years that have an odd fall: 2021-2022, 2023-2024, 2025-2026

*** You also have the option to take MAT 375 which is taught only in the spring.

****Options: BIO 161, BIO 162, CHM 121/125, CHM 122/126, ESS 110, PHY 205/123, or PHY 206/125.

*****Number of Free Electives dependent on major requirements that also count under General Education.

^a Students starting with MAT 140B or MAT 175 take MAT 225 in their second or third semester before CSC 310. These math classes replace Free Electives.