

## B.S. Computer Science, Computer Science with Secondary Field Concentration

Fall 2024

	Fall		Spring		
<b>Freshman</b>	CMSC 110 Computer Science I	4	CMSC 111 Computer Science II	4	
	MATH 211 Calculus 1 <sup>a</sup>	4	MATH 225 Discrete Math	4	
	ENGL114 WIFYS	3	COST 100 Intro to Human Communications	3	
	UNIV 101	3	HIST 105 Historical Foundations of Global Cultures	3	
		<b>14</b>		<b>14</b>	28
<b>Sophomore</b>	SWEN 200 Design Patterns	4	CMSC 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	
		<b>15</b>		<b>14/15</b>	57/58
<b>Junior</b>	CMSC/SWEN/CE/ELEN 300+ Elective	4	MATH 217 Statistics ***	4	
	MATH 318 Elementary Linear Algebra	3	PHIL 105 - Ethical Theories and Problems	3	
	CMSC 410 Theory of Computing	3	CMSC 498 Sr. Research I	3	
	Minor 1*	3	Gen Ed 3	3	
	Minor 2	3	Minor 3	3	
		<b>16</b>		<b>16</b>	89/90
<b>Senior</b>	CMSC 300+ Elective	4	CMSC 471 - Database	3	
	CMSC 499 Sr. Research II	3	Gen Ed 6	3	
	Gen Ed 4	3	Minor 5	3	
	Gen Ed 5	3	Minor 6	3	
	Minor 4	3	Minor 7	3/2	
		<b>16</b>		<b>15/14</b>	120

\* **Assumptions:** Most minors are about 20-24 credits (a math minor is only about 6-8 additional credits), a second major 30-40 credits. Please talk to your advisor.

\*\* Options: BIOL 161, BIOL 162, CHEM 121/125, CHEM 122/126, ESSC 110, PHYS 205/124, or PHYS 206/126.

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

<sup>a</sup> Students starting with MATH 140 or MATH 175 take MATH 225 in their second or third semester before CMSC 310.