B.S. Computer Science, Related Discipline Concentration

Starting as CS&E General with MAT 050

Fall 2018

	Fall		Spring		
Freshman	CSC 120 Intro. to Computer Science & Metacognition	3	CSC 110/107 Computer Science I	4	
	MAT 050 [does count towards graduation]	3	MAT 140B	3	
	ENG114 WIFYS	3	HCS 100 Intro to Human Communications	3	
	Gen Ed 1	3	Gen Ed 2	3	
	UNIV 101	3	HIS 105 Historical Foundations of Global Cultures	3	
		15		16	28 (+3)
Sophomore	CSC 111 Computer Science II ¹	4	MAT 225 Discrete Math	4	
	MAT 175 Precalculus	4	Gen Ed 4	3	
	Gen Ed 3	3	MAT 211 Calculus 1	4	
	Science I (BIO 161, CHM 121/123, or PHY 205/123)**	4	Science II (BIO 162, CHM 122/124, or PHY 206/125)**	4	
		15		15	58
Junior	SWE 200 Design Patterns	4	CSC 310 Design & Analysis of Algorithms	4	
	CMPE 220 Computer Organization	4	CMPE 320 Operating Systems	4	
	Gen Ed 5	3	CSC 371 Database Management	4	
	Gen Ed 6	3	Gen Ed 8	3	
	Gen Ed 7	3			
		17		15	90
Senior	CSC/SWE/CE/EE 300+ Elective 1***	4	MAT 217 Statistics	4	
	CSC/SWE/CE/EE 300+ Elective 2***	4	CSC 498 Sr. Research I	2	
	MAT 318 Elementary Linear Algebra	3	CSC/SWE/CE/EE 300+ Elective 3***	4	
	Gen Ed 9	3	Min/Maj 2	3	
	Min/Maj 1 *	3	Min/Maj 3	3	
		17		10	123
Senior++	CSC 499 Sr. Research II	2			
	Min/Maj 4	3			
	Min/Maj 5	3			
	Min/Maj 6	3			
	Min/Maj 7	3			
	Min/Maj 8	3			
		17			140

¹ Recommendation: take CSC 111 in the summer between freshmen & sophomore year to get back on track for graduation. CSC 111 is typically **not** offered at Shippensburg.

minor will determine the number and timing of additional classes you will need to take. Please talk to your advisor.

^{*} **Assumptions:** minors will require 124 total credits, double majors will require 140 total credits. These are estimates. Your choice of major or

^{**} Science I and II must be in the same discipline (So if you take BIO for Science I, you must take BIO for Science II)

^{***} One of the Electives must be a group project based course selected from the following: CSC 403, CSC 434, or CSC 451