

B.S. Computer Science, Application Concentration

Starting as CS&E General with MAT 140A

Fall 2017

	Fall		Spring		
Freshman	CSC 120 Intro. to Computer Science & Metacognition	3	CSC 110/107 Computer Science I	4	
	MAT 140A	3	MAT 175 Precalculus	4	
	ENG114 WIFYS	3	HCS 100 Intro to Human Communications	3	
	Gen Ed 1	3	HIS 106 Thinking Historically in a Global Age	3	
	HIS 105 Historical Foundations of Global Cultures	3			
		16		14	30
Sophomore	CSC 111 Computer Science II ¹	4	CSC 310 Design & Analysis of Algorithms	4	
	MAT 225 Discrete Math	4	MAT 211 Calculus 1	4	
	Gen Ed 2	3	Gen Ed 3	3	
	Two Semester Science Sequence I	4	Two Semester Science Sequence II	4	
		15		15	60
Junior (Even AY) *	SWE 200 Design Patterns	4	CSC 403 Machine Learning	4	
	CMPE 220 Computer Organization	4	CMPE 320 Operating Systems	4	
	MAT 217 Statistics	4	CSC 371 Database Management	4	
	Gen Ed 4	3	Gen Ed 5	3	
		15		15	90
Senior (Odd AY)**	CSC 350 Intro. to Computer Graphics	4	CSC 410 Theory of Computing	4	
	MAT 318 Elementary Linear Algebra	3	CSC 498 Sr. Research I	2	
	Gen Ed 6	3	Gen Ed 8	3	
	Gen Ed 7	3	Gen Ed 9	3	
		13		12	115
Senior++ (Even AY)*	CSC 462 Artificial Intelligence	4	CSC 431 Networks	4	
	CSC 499 Sr. Research II	2			
		6		4	125
Junior (Odd AY) *	SWE 200 Design Patterns	4	CMPE 320 Operating Systems	4	
	CMPE 220 Computer Organization	4	CSC 371 Database Management	4	
	MAT 217 Statistics	4	Gen Ed 5	3	
	Gen Ed 4	3	Gen Ed 6	3	
		15		14	89
Senior (Even AY)*	CSC 462 Artificial Intelligence	4	CSC 431 Networks	4	
	MAT 318 Elementary Linear Algebra	3	CSC 403 Machine Learning	4	
	Gen Ed 7	3	CSC 498 Sr. Research I	2	
	Gen Ed 8	3	Gen Ed 9	3	
		13		13	115
Senior++ (Odd AY)**	CSC 350 Intro. to Computer Graphics	4	CSC 410 Theory of Computing	4	
	CSC 499 Sr. Research II	2			
		6		4	125

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.

* (Even AY) Academic years that have an even fall: 2018-2019, 2020-2021, 2022-2023

** (Odd AY): Academic years that have an odd fall: 2017-2018, 2019-2020, 2021-2022