

Fall Year 1 (13-14 cre	dits)	Spring Year 1 (15 credits)				
CSCE A201	Computer Programming I (Java)	4	CSCE A211	Computer Programming II	4	
WRTG A111	Writing Across Contexts	3	CSCE A241	Computer Hardware Concepts	4	
MATH A251 or 221 Calculus I		3-4	MATH A261	Discrete Math	3	
Communications GER			STAT A253 or 307 Probability			
Fall Year 2 (15-16 credits)			Spring Year 2 (15 credits)			
	Object-Oriented Programming	3	CSCE A331	Programming Languages	3	
	Computer Org & Assembly	3	CSCE A360	Database Systems	3	
	Data Structures & Algorithms	3	WRTG A212	Writing and the Professions	3	
Open elective 3		3	Open elective			
Humanities/Foreign Language/AK Native-Themed GER			Social Science GER		3	
Fall Year 3 (16 credits	s)		Spring Year 3 (15 credits)			
CSCE A321	Operating Systems	3	CSCE A351	Automata & Algorithms	3	
CSCE A365	Computer Networks	3	CSCE A465	Computer & Network Security	3	
**Upper Division CSCE Elective 3			ENGL A313 or 414 or 478 Professional/Research/Public Writing			
Open elective		3	Open elective		3	
Natural Science GER + Lab 4			Natural Science GER			
Fall Year 4 (15-16 credits)			Spring Year 4 (15 credits)			
	oftware Engineering	3	CSCE A470	CS&E Capstone Project	3	
**Upper Division CSCE Elective 3		-	PHIL A305	Professional Ethics	3	
Open elective 3-4			**Upper Division CSCE Elective			
Fine Arts GER 3			**Upper Division CSCE Elective			
Social Science GER 3			Open elective			

A total of 120 credits at the 100-level or higher is required for this degree, 42 of which must be upper division.

Upper Division Computer Science Electives

<u>Course</u>	<u>Number</u>	<u>Title</u>	<u>Course</u>	<u>Number</u>	<u>Title</u>
CSCE	A302	Object-Oriented Programming II	CSCE	A415	Machine Learning
CSCE	A305	Android Programming	CSCE	A448	Computer Architecture
CSCE	A342	Digital Circuits Design	CSCE	A462	Data Mining
CSCE	A385	Computer Graphics	CSCE	A490	Topics in Computer Science
CSCE	A395	Internship in Computing	CSCE	A495	Computing Internship Project
CSCE	A405	Artificial Intelligence	CSCE	A498	Individual Research
CSCE	A412	Evolutionary Computing			

^{**}Students completing the Bachelor of Arts need an additional 12 upper division credits in CSCE, Mathematics (excluding MATH A420 and MATH A495), or Statistics. Nine of these credits must be in courses with a CSCE prefix. A maximum of 3 credits of CSCE A395, a maximum of 3 credits of CSCE A495, and a maximum of 6 credits of CSCE A498 may be applied to degree requirements.