Bachelor of Arts in **Computer Science**

Sample Plan

The academic plan below is one pathway through the degree/certificate. It includes all requirements, taking into account recommendations from program faculty. Each student's plan may vary according to their initial course placement (http://catalog.uaa.alaska.edu/ academicpoliciesprocesses/academicstandardsregulations/ courseplacement/), intended course load, additional majors and/or minors, and their placement into required prerequisite courses. Any change in the plan below can have an unforeseen impact on the rest of the plan. Therefore, it is very important to meet with your academic advisor to verify your personal academic plan.

Please review the following terms, definitions, and resources associated with the sample academic plan below.

- Each course in the far left column links to a pop-up bubble with a course description, prerequisite requirements, and associations with university requirements. For example, if a course fulfills a general education requirement, you will see that in the pop-up bubble.
- GER: indicates a General Education Requirement (http://catalog.uaa.alaska.edu/undergraduateprograms/ baccalaureaterequirements/gers/). GERs that also count toward degree/certificate requirements appear as a specific course in the plan. For these courses, "GER" is not indicated explicitly in the table, but if you click on the course, you will see the course's GER status in the pop-up bubble.
- Program Elective: indicates a specific course selection determined by program faculty to fulfill a degree/certificate requirement. Students should seek assistance from their academic advisor.
- Elective: indicates an open selection of 100-400 level university courses to fulfill elective credits needed to meet the minimum total credits toward the degree/certificate.
- Upper Division Program Elective: indicates a specific 300-400 level course selection determined by the program faculty to fulfill a degree/certificate requirement. Students should seek assistance from their academic advisor.
- Upper Division Elective: indicates an open selection of 300-400 level courses to fulfill elective credits needed to meet the minimum total credits toward the degree/certificate. These courses must be upper division in order to meet General University Requirements for the particular degree/certificate type.

Course	Title	Credits
First Year		
Fall		
CSCE A101	Introduction to Computer Science	3

Applied Calculus for Managerial and	3-6
	3
-	3
	3
Credits	15-18
Creatis	10 10
Computer Programming I	4
	3
	3
ences w/Lab	4
	3
	17
Creatis	17
Computer Programming II	4
	4
	3
	3
ences	3
Cradits	<u></u>
Creatis	17
Computer Organization and Assembly	3
	5
	3
	3
·	3
or Research Writing	
or Public Science Writing	
	4
or Probability and Statistics	
<u> </u>	1(
Credits	16
Credits	10
Automata, Algorithms and Complexity	3
Automata, Algorithms and Complexity Computer Networks	3
Automata, Algorithms and Complexity	3333
Automata, Algorithms and Complexity Computer Networks	3 3 3 3
Automata, Algorithms and Complexity Computer Networks nces	3 3 3 3 3
Automata, Algorithms and Complexity Computer Networks	3 3 3 3
Automata, Algorithms and Complexity Computer Networks nces Credits	3 3 3 3 3 15
Automata, Algorithms and Complexity Computer Networks nces	3 3 3 3 3
	Social Sciences ¹ or Calculus I or F.A.T. Calculus I writing Across Contexts aunication Skills Credits Computer Programming I Introduction to Discrete Mathematics ences w/ Lab mmunication Skills (200-level) Credits Computer Programming II Computer Programming II Computer Hardware Concepts ² ences Credits Computer Organization and Assembly Language Programming Data Structures and Algorithms Database Systems Professional Writing or Research Writing or Research Writing or Public Science Writing or Public Science Writing or Probability and Statistics

Elective		3
Upper Division Program Elective		3
	Credits	15
Fourth Year		
Fall		
CSCE A401	Software Engineering	3
PHIL A305	Professional Ethics	3
Elective		3
Upper Division Program Elective		3
Upper Division Program Elective		3
	Credits	15
Spring		
CSCE A465	Computer and Network Security	3
CSCE A470	Computer Science and Engineering Capstone Project	3
Elective		3
Upper Division Program Elective		3
	Credits	12
	Total Credits	122-125

MATH A221, MATH A251, and MATH A251F have prerequisites.
Choose a course that also fulfills the Alaska Native-Themed GER.