## MAJOR IN COMPUTER SCIENCE, COMPUTER SCIENCE EDUCATION CONCENTRATION

To prepare for first semester. The curriculum for the Computer Science major assumes students enter college prepared to take calculus. Entering students who are not prepared to take calculus will need to fulfill precalculus requirements in the first semester. All students must maintain a C (2.000) or better in CO 150 and in all CS, DSCI, MATH, and STAT courses which are required for graduation.4

## **Major Completion Map**

**Distinctive Requirements for Degree Program:** 

Freshman Semester 1		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)	X	Recommended	1A	3
First course in Group A, B, or C (See options on Concentration Requirements		X		IA	3
Tab)					
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		Х		1C	3
Department Approved Science (See list on Concentration Requirements Tab)		Χ		3A	3
Electives			X		1-5
MATH 124 and MATH 126 may be necessary for some students to fulfill pre-		Χ			
calculus require	ments.				
	Total Credits				13-17
Semester 2		Critical	Recommended	AUCC	Credits
CS 201/PHIL 20	1 Ethical Computing Systems (GT-AH3)	X		3B	3
MATH 156 or 160	Mathematics for Computational Science I (GT-MA1) Calculus for Physical Scientists I (GT-MA1)	Х		1B	4
Remaining course(s) from Group A, B, or C (See options on Concentration Requirements Tab)		Х			2-6
Department Approved Science with Lab (See list on Concentration Requirements Tab)		Х		3A	4
Electives			X		0-2
CO 150 must be completed by the end of Semester 2 with a grade of C or		Х	^		0.2
better.	completed by the end of demester 2 with a grade of 0 of	X			
	Total Credits				13-17
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
CS 165	CS2Data Structures	X			4
CS 220	Discrete Structures and their Applications	X			4
EDUC 275	Schooling in the United States (GT-SS3)	Χ		3C	3
Select one course from the following:		X			1-3
STAT 301	Introduction to Applied Statistical Methods				
STAT 302A	Statistics Supplement: General Applications				
STAT 307	Introduction to Biostatistics				
STAT 315	Intro to Theory and Practice of Statistics				
Electives			Χ		0-2
	Total Credits				12-16
Semester 4		Critical	Recommended	AUCC	Credits
EDUC 340	Literacy and the Learner	X			3
Select one group from the following:		Χ			4-5
Group A					
CS 214	Software Development				

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entire program of study.

**Total Credits** 

**Program Total Credits:** 

12-15

120