## 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		1A	3
First course in G Tab)	roup A, B, or C (See options on Concentration Requirements	X		3B	3
Department Approved Science (See list on Concentration Requirements Tab)		X		3A	4
1C (http://catalog.colostate.edu/general-catalog/all-university-core-		X		1C	3
curriculum/aucc/#aucc)					
Elective			X		1
MATH 124 and MATH 126 may be necessary for some students to fulfill precalculus requirements.		Х			
	Total Credits				14
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)		X		3A	3
Electives			Χ		0-4
CO 150 must be	completed by the end of Semester 2 with a grade of C or	X			
better.					
	Total Credits				16
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
CS 165	CS2Data Structures	X			4
CS 220	Discrete Structures and the Applications	X			4
EDUC 275	Schools, Society, and Self (GT-SS3)	X		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				14
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				

The benchmark courses for the 8th semester are the remaining courses in the

entire program of study.

**Total Credits** 

**Program Total Credits:** 

Χ

12-13

120