## MAJOR IN COMPUTER SCIENCE, SOFTWARE ENGINEERING 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, CIS, DSCI, MATH, and STAT courses which are required for graduation.

## **Major Completion Map**

**Distinctive Requirements for Degree Program:** 

Freshman					
Semester 1		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)			1A	3
First course from	n Group A, B, or C (See options in Concentration				2-4
Requirements Ta					
Department App	roved Science (See list on Concentration Requirements Tab)			3A	3
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/		X		1C	3
all-university-core-curriculum/aucc/#diversity-equity-inclusion)					
Electives					2-3
MATH 124 and MATH 126 may be necessary for some students to fulfill pre- calculus requirements.		Х			
	Total Credits				15
Semester 2		Critical	Recommended	AUCC	Credits
CS 201/PHIL 201	Ethical Computing Systems (GT-AH3)		Χ	3B	3
MATH 156 or	Mathematics for Computational Science I (GT-MA1)		X	1B	4
160	Calculus for Physical Scientists I (GT-MA1)				
Remaining course(s) from Group A, B, or C (See options in Concentration Requirements Tab)		Х			2-4
Department Approved Science Course with Lab (See list on Concentration Requirements Tab)				3A	4
Electives	,				0-2
CO 150 must be	completed by the end of Semester 2 with a grade of C or	X			
better.					
	Total Credits				15
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
CS 165	CS2Data Structures				4
CS 220	Discrete Structures and their Applications		X		4
Select one course from the following:					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				
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)				3D	3
Electives					1-4
	Total Credits				16
Semester 4		Critical	Recommended	AUCC	Credits
Select one group from the following:					4-5
Group A					
CS 214	Software Development				

**Total Credits** 

**Program Total Credits:** 

2

6

4

4

7

15 120