MAJOR IN STATISTICS

Major Completion Map

Distinctive Requirements for Degree Program:

<u>To Prepare for First Semester</u>: The Curriculum for the Statistics 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. A minimum grade of C (2.000) is required in all CS, DSCI, MATH, and STAT courses which are required by the major.

Freshman					
Semester 1		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)		X	1A	3
MATH 160	Calculus for Physical Scientists I (GT-MA1)		X	1B	4
STAT 192	First-Year Seminar in Statistics	X			1
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		/		1C	3
	ectives (http://catalog.colostate.edu/general-catalog/all- curriculum/aucc/#historical-perspectives)			3D	3
	Total Credits				14
Semester 2		Critical	Recommended	AUCC	Credits
MATH 161	Calculus for Physical Scientists II (GT-MA1)		X	1B	4
STAT 158	Introduction to R Programming	X			1
STAT 315	Intro to Theory and Practice of Statistics		X		3
Select one cours	se from the following:				2-4
CS 150A	Culture and Coding: Java (GT-AH3)			3B	
CS 150B	Culture and Coding: Python (GT-AH3)			3B	
CS 152	Python for STEM		X		
CS 163	CS1No Prior Programming Experience		X		
CS 164	CS1Computational Thinking with Java		X		
Electives					4-6
	Total Credits				16
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
MATH 261	Calculus for Physical Scientists III		X		4
STAT 341	Statistical Data Analysis I		X		3
Select one cours	se from the following:				3-4
DSCI 369	Linear Algebra for Data Science				
MATH 369	Linear Algebra I				
Biological and P	hysical Sciences (http://catalog.colostate.edu/general-			3A	4
catalog/all-unive	ersity-core-curriculum/aucc/#biological-physical-sciences)				
	Total Credits				14-15
Semester 4		Critical	Recommended	AUCC	Credits
STAT 342	Statistical Data Analysis II	X			3
Select one course from the following:					
CS 220	Discrete Structures and their Applications				
MATH 235	Introduction to Mathematical Reasoning				
Select one course from the following:					3
CO 300	Writing Arguments (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
Biological and Physical Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#biological-physical-sciences)				3A	3
Electives					
STAT 341 and S	TAT 342 must be completed by the end of Semester 4.	Х			
	Total Credits				15-16

Junior				
Semester 5	Critical	Recommended	AUCC	Credits
STAT 420 Probability and Mathematical Statistics I				3
STAT 472 Statistical Research-Design, Data, Methods			4A,4B,4C	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			3B	3
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)			3C	3
Electives				3
Total Credits				15
Semester 6	Critical	Recommended	AUCC	Credits
STAT 430 Probability and Mathematical Statistics II			4A	3
Upper-Division STAT/DSCI/MATH/CS Elective				3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)			3B	3
Electives				6
STAT 420 and STAT 430 must be completed by the end of Semester 6.	X			
Total Credits				15
Senior				
Semester 7	Critical	Recommended	AUCC	Credits
Upper-Division STAT/DSCI/MATH/CS Elective				3
400-Level STAT Elective				3
Electives				9
Total Credits				15
Semester 8	Critical	Recommended	AUCC	Credits
Upper-Division STAT/DSCI/MATH/CS Elective	Χ			3
400-Level STAT Elective	Х			3
Electives	Х			9
The benchmark courses for the 8th semester are the remaining courses in tentire program of study.	he X			
Total Credits				15
Program Total Credits:				120