

MAJOR IN STATISTICS

Requirements Effective Fall 2022

A minimum grade of C (2.000) is required in each CS, DSCI, MATH, and STAT course required for the major.

Freshman

		AUCC	Credits
CO 150	College Composition (GT-CO2)	1A	3
MATH 160	Calculus for Physical Scientists I (GT-MA1)	1B	4
MATH 161	Calculus for Physical Scientists II (GT-MA1)	1B	4
STAT 158	Introduction to R Programming		1
STAT 192	First-Year Seminar in Statistics		1
STAT 315	Intro to Theory and Practice of Statistics		3
Select one course 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		
CS 163	CS1—No Prior Programming Experience		
CS 164	CS1—Computational Thinking with Java		
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
Electives			4-6
Total Credits			30

Sophomore

MATH 261	Calculus for Physical Scientists III		4
STAT 341	Statistical Data Analysis I		3
STAT 342	Statistical Data Analysis II		3
Select one course from the following:			2-4
CS 220	Discrete Structures and their Applications		
MATH 235	Introduction to Mathematical Reasoning		
Select one course from the following:			3-4
DSCI 369	Linear Algebra for Data Science		
MATH 369	Linear Algebra I		
Select one course from the following:			3
JTC 300	Strategic Writing and Communication (GT-CO3)	2	
CO 300	Writing Arguments (GT-CO3)	2	
Biological and Physical Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#biological-physical-sciences)		3A	7
Electives			2-5
Total Credits			30

Junior

STAT 420	Probability and Mathematical Statistics I		3
STAT 430	Probability and Mathematical Statistics II	4A	3
STAT 472	Statistical Research--Design, Data, Methods	4A,4B,4C	3
Upper-Division STAT/DSCI/MATH/CS Elective ¹			3

Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)	3B	6
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)	3C	3
Electives		9

Total Credits		30
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Senior

Upper-Division STAT/DSCI/MATH/CS Elective ¹		6
400-Level STAT Electives ²		6
Electives ³		18

Total Credits		30
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Program Total Credits:		120
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¹ Select upper-division (300- to 400-level) statistics, data science, mathematics, or computer science (excluding courses ending in -82 to -99).

² Select 400-level Statistics courses (excluding courses ending in -82 to -99)

³ Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).
