

Note: No course with a STAT prefix may be selected as credit/no credit.

MAJOR COURSES		
STAT 150	Intro to the Discipline of Statistics	2
MATH 141	Calculus I (B4) <sup>1</sup>	4
MATH 142	Calculus II (GE Electives) <sup>1</sup>	4
MATH 143	Calculus III	4
MATH 206	Linear Algebra I	4
MATH 241	Calculus IV	4
STAT 301	Statistics I	4
STAT 302	Statistics II	4
STAT 305	Introduction to Probability and Simulation	4
STAT 323	Design and Analysis of Experiments I	4
STAT 330	Statistical Computing with SAS	4
STAT 331	Statistical Computing with R	4
STAT 334	Applied Linear Models	4
STAT 365	Statistical Communication	2
STAT 425	Probability Theory	4
STAT 426	Estimation and Sampling Theory	4
STAT 427	Mathematical Statistics	4
STAT 466	Senior Project - Statistical Consulting	4
<b>List A Electives</b>   Select from:		12
STAT 405	Applied Probability Models	
STAT 414	Multilevel and Mixed Modeling	
STAT 415	Bayesian Reasoning and Methods	
STAT 416	Statistical Analysis of Time Series	
STAT 417	Survival Analysis Methods	
STAT 418	Categorical Data Analysis	
STAT 419	Applied Multivariate Statistics	
STAT 421	Survey Sampling and Methodology	
STAT 423	Design and Analysis of Experiments II	
STAT 434	Statistical Learning: Methods and Applications	
<b>List B Electives</b>   Select from:		12
Any 400-level STAT course (including those in List A)		
CSC/CPE 202	Data Structures	
CSC/CPE 203	Project-Based Object-Oriented Programming	
CSC 248	Discrete Structures	
CSC 349	Design and Analysis of Algorithms	
CSC 365	Introduction to Database Systems	
CSC 369	Introduction to Distributed Computing	
DATA 301	Introduction to Data Science	
IME 430	Quality Engineering	
ITP 303	Lean Six Sigma Green Belt	
MATH 242	Differential Equations I	
MATH 306	Linear Algebra II	
MATH 335	Graph Theory	
MATH 336	Combinatorial Math	
MATH 406	Linear Algebra III	
MATH 412	Introduction to Analysis I	
MATH 413	Introduction to Analysis II	
MATH 414	Introduction to Analysis III	
MATH 437	Game Theory	
MATH 451	Numerical Analysis I	
<b>Total Major Units</b>		<b>92</b>

SUPPORT COURSES		
Select one from the following:		4
CSC/CPE 101	Fundamentals of Computer Science	
CSC 235	Fund./Comp. Sci. for Scientists & Engrs	
MATH 248	Methods of Proof in Mathematics	4
Approved Support Electives <sup>2</sup>		8
<b>Total Support Units</b>		<b>16</b>

GENERAL EDUCATION		
<b>Area A English Language Communication &amp; Critical</b>		
A1	Oral Communication	4
A2	Written Communication	4
A3	Critical Thinking	4
<b>Area B Scientific Inquiry and Quantitative Reasoning</b>		
B1	Physical Science	4
B2	Life Science	4
B3	One lab taken with either a B1 or B2 course	
B4	Math/Quant Reasoning (4 units in Major) <sup>1</sup>	0
Upper-Division B		
<b>Area C Arts and Humanities</b>		
<i>Lower-division courses must come from three different subject prefixes.</i>		
C1	Arts	4
C2	Humanities	4
Lower-Division C Elective - Select from either C1 or C2		
Upper-Division C		
<b>Area D Social Sciences</b>		
<i>Select courses in Area D from at least two different prefixes</i>		
D1	American Institutions (Title 5/40404)	4
D2	Lower-Division D	4
Upper-Division D		
<b>Area E Lifelong Learning and Self-Development</b>		
Lower-Division E		
<b>Area F Ethnic Studies</b>		
Lower-Division F		
<b>GE Electives in Areas B, C, and D</b>		
<i>Select from two different areas; may be lower- or upper-division courses.</i>		
GE Electives (4 units of Area B in Major) <sup>1</sup>		0
GE Electives (Area C or D)		4
<b>Total GE Units</b>		<b>64</b>
<b>FREE ELECTIVES</b>		<b>8</b>
<b>TOTAL DEGREE UNITS</b>		<b>180</b>

FOOTNOTES
<sup>1</sup> Required in Major or Support; also satisfies General Education (GE) requirement.
<sup>2</sup> Consultation with faculty advisor is required of students, to select and obtain approval for these courses. Students are requested to consult their advisors before the start of their junior year.