BS STATISTICS
2022-2026

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

MAJOR COURSES

Course	Title	Units
STAT 150	Intro to the Discipline of Statistics	2
MATH 141	Calculus I (B4) [1]	4
MATH 142	Calculus II (GE Electives) [1]	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

List A Electives | 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

List B Electives | 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 334	Combinatorial Math
MATH 335	Graph Theory
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

Total Major Units	**92**

SUPPORT COURSES

Course	Title	Units
CSC/CPE 101	Fundamentals of Computer Science	4
MATH 248	Methods of Proof in Mathematics	4
Approved Support Electives [2]		8

Total Support Units	**16**

GENERAL EDUCATION

Area A	**English Lang. Communication & Critical Thinking**		
	A1	Oral Communication	4
	A2	Written Communication	4
	A3	Critical Thinking	4
Area B	**Scientific Inquiry and Quantitative Reasoning**		
	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) [1]	0
	Upper-Division B		4
Area C	**Arts and Humanities**		
	Select lower-division courses from 3 different prefixes.		
	C1	Arts	4
	C2	Humanities	4
	Lower-Division C Elective - Select from either C1 or C2		4
	Upper-Division C		4
Area D	**Social Sciences**		
	Select courses from at least 2 different prefixes.		
	D1	American Institutions (Title 5/40404)	4
	D2	Lower-Division D	4
	Upper-Division D		4
Area E	**Lifelong Learning and Self-Development**		
	Lower-Division E		4
Area F	**Ethnic Studies**		
	Lower-Division F		4
GE Electives in Areas C and D			
	Select lower- or upper-division courses from 2 different areas.		
	GE Electives (4 units of Area B in Major) [1]		0
	GE Electives (Area C or D)		4

Total GE Units	**64**
FREE ELECTIVES	**8**
TOTAL DEGREE UNITS	**180**

FOOTNOTES

[1] Required in Major or Support; also satisfies General Education (GE) requirement.

[2] 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.