

MINOR IN STATISTICS

Requirements

Effective Spring 2026

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

A minimum grade of C must be achieved in all STAT courses required for the minor in statistics.

Code	Title	Credits
Introductory Course: Select either Group A or Group B below		3-4
Group A, Take one of the following:		
STAT 301	Introduction to Applied Statistical Methods	
STAT 307	Introduction to Biostatistics	
STAT 315	Intro to Theory and Practice of Statistics	
Or Group B, Take each of the following:		
STAT 201	General Statistics (GT-MA1) (((STAT 201 OR STAT 204) AND STAT 302A) should be an option for the introductory course)	
or STAT 204	Statistics With Business Applications (GT-MA1)	
STAT 302A	Statistics Supplement: General Applications	
STAT 158	Introduction to R Programming	1
STAT 341	Statistical Data Analysis I	3
STAT 342	Statistical Data Analysis II	3
STAT/DSCI or Outside Electives (select at least 6 credits from STAT/DSCI list – see lists below)		12
Program Total Credits:		22-23

Statistics/Data Science Electives

Code	Title	Credits
DSCI 335	Inferential Reasoning in Data Analysis	3
DSCI 336	Data Graphics and Visualization	1
DSCI 445	Statistical Machine Learning	3
STAT 258	Advanced R Programming	2
STAT 305	Sampling Techniques	3
STAT 331	Intermediate Applied Statistical Methods	3
STAT 351	Sports Statistics and Analytics I	3
STAT 400	Statistical Computing	3
STAT 420	Probability and Mathematical Statistics I	3
STAT 421	Introduction to Stochastic Processes	3
STAT 430	Probability and Mathematical Statistics II	3
STAT 440	Bayesian Data Analysis	3
STAT 451	Sports Statistics and Analytics II	3
STAT 460	Applied Multivariate Analysis	3
STAT 472	Statistical Research--Design, Data, Methods	3

Outside Electives

Code	Title	Credits
AB 415	Agricultural Data Science	3
BIOM 422	Quantitative Systems and Synthetic Biology	3
BIOM 431/ECE 431	Biomedical Signal and Image Processing	3
BZ 350	Molecular and General Genetics	4
BZ 360	Bioinformatics and Genomics	4
CIS 230		
CIS 370	Analytics and AI in Business	3
CS 220	Discrete Structures and the Applications	4
CS 320	Algorithms--Theory and Practice	3
CS 345	Machine Learning Foundations and Practice	3
CS 420	Introduction to Analysis of Algorithms	4
CS 445	Introduction to Machine Learning	4
DSCI 235	Data Wrangling	2
DSCI 320/MATH 320	Optimization Methods in Data Science	3
DSCI 369	Linear Algebra for Data Science	4
DSCI 473	Introduction to Geometric Data Analysis	2
DSCI 475	Topological Data Analysis	2
ECE 303/STAT 303	Introduction to Communications Principles	3
ECE 311	Linear System Analysis I	3
ECE 312	Linear System Analysis II	3
ECON 335/AREC 335	Introduction to Econometrics	3
ECON 435	Intermediate Econometrics	3
ECON 436	Economic Forecasting	3
ERHS 332	Principles of Epidemiology	3
ERHS 430	Human Disease and the Environment	3
ESS 330	Quantitative Reasoning for Ecosystem Science	3
F 321	Forest and Natural Resource Biometry	3
F 422	Quantitative Methods in Forest Management	3
FW 370	Design of Fish and Wildlife Projects	3
FW 401	Fishery Science	3
FW 471	Wildlife Data Collection and Analysis	4
FW 475	Conservation Decision Making	3
HDFS 350	Applied Research Methods	3
MATH 269	Geometric Introduction to Linear Algebra	2
MATH 301	Introduction to Combinatorial Theory	3
MATH 317	Advanced Calculus of One Variable	3
MATH 331	Introduction to Mathematical Modeling	3
MATH 340	Intro to Ordinary Differential Equations	4
MATH 345	Differential Equations	4
MATH 360	Mathematics of Information Security	3
MATH 369	Linear Algebra I	3
MATH 411	Stochastic Calculus and Financial Mathematics	3
MATH 450	Introduction to Numerical Analysis I	3
MECH 231	Engineering Experimentation	2
MECH 417	Control Systems	3
MGT 475	International Business Management	3

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MKT 450	Marketing Analytics	3
NR 422	GIS Applications in Natural Resource Management	4
PSY 317	Social Psychology Laboratory	2
PSY 350	Research Design and Analysis II	3
PSY 370	Psychological Measurement and Testing	3
PSY 371	Psychological Measurement and Testing Lab	1
SOC 314	Applications of Quantitative Research	3
WR 418	Land Use and Water Quality	3