

A.B. in Statistics - Applied Statistics Option (effective Fall 10)

Recommended for students who are interested in combining statistics study with a second major or minor program in the social sciences

Preparatory Subject Matter (19-22units)

- MAT 16 A-B-C *or* MAT 17 A-B-C *or* MAT 21 A-B-C Calculus
- MAT 22A Linear Algebra
- ECS 30 Intro to Programming and Problem Solving *or* ECS 40 Intro to Software Development and Object-Oriented Programming
- STA 32 Basic Statistical Analysis through Computers

Depth Subject Matter (45-48 units)

- STA 106 Analysis of Variance
- STA 108 Regression Analysis
- STA 138 Analysis of Categorical Data
- STA 130 A-B Mathematical Statistics: Brief Courses
- STA 137 Applied Time Series Analysis *or* STA 141 Statistical Computing *or* STA 141A Fundamentals of Statistical Data Science

Three courses from:

- STA 104 Nonparametric Statistics
- STA 135 Multivariate Data Analysis
- STA 137 Applied Time Series Analysis
- STA 141 Statistical Computing *or* STA 141A Fundamentals of Statistical Data Science
- STA 141B Data & Web Technologies for Data Analysis *or* STA 141C Big Data & High Performance Statistical Computing
- STA 144 Sampling Theory of Surveys
- STA 145 Bayesian Statistical Inference
- STA 160 Practice in Statistical Data Science

Three elective courses outside of Statistics:

The electives must be approved by the major advisor. They should follow a coherent sequence in a single discipline in the social sciences where statistical methods and models are applied and should cover the quantitative aspects of the discipline. Please confer with the major advisor for a list of recommended courses.