Undergraduate Program

Statistics

The University of Iowa offers a B.S. Program in Statistics

Track: Mathematical Statistics

The Statistics program prepares students for careers in a wide variety of fields. With the rise of Data Science and Analytics, the number of undergraduate students choosing to expand their knowledge base and skill set in the area of statistics has grown substantially. The Statistics program is structured to provide students with a conceptual understanding of elementary probability and mathematical statistics, skills in data analysis and interpretation, the ability to communicate effectively both orally and in writing, and a proficiency in statistical computing. Statistics majors choose one of three emphasis tracks. A student chooses a track based on plans to enter the job market with a focus on data analysis or statistical computing, or to continue with graduate work after completing the BS degree. All the tracks provide fundamental preparation for careers that employ data modeling and quantitative reasoning skills.

For more information contact us at: statistics@uiowa.edu or www.stat.uiowa.edu or 319.335.0712 or www.stat.uiowa.edu

Sample Schedule

(not including General Education requirements)

BS Mathematical Statistics

Year 1, Fall

- MATH:1850 Calculus I
- CS:1210 Computer Science I: Fundamentals

Year 1, Spring

- MATH:1860 Calculus II
- STAT:2010 Statistical Methods and Computing

Year 2, Fall

- MATH:2700 Introduction to Linear Algebra
- STAT:3200 Applied Linear Regression

Year 2, Spring

- MATH:2850 Calculus III
- MATH:3770 Fundamental Properties of Spaces and Functions

Year 3, Fall

- STAT:4100 Mathematical Statistics I
- STAT:6510 Applied Generalized Regression

Year 3, Spring

- STAT:4101 Mathematical Statistics II
- STAT:3210 Experimental Design and Analysis

Year 4, Fall

- STAT:4520 Bayesian Statistics

Year 4, Spring

- STAT:6540 Applied Multivariate Analysis