Undergraduate Program

Statistics

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

Track: Statistical Computing and Data Science

The Statistics program prepares students for careers in a wide variety of fields. With the rise of Data Science and Analytics, the number of undergradu-ate 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 sta-tistical 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 Statistical Computing and Data Science

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

- CS:2210 Discrete Structures
- STAT:3100 Introduction to Mathematical Statistics I
- CS:2230 Computer Science II: Data Structures

Year 2, Spring

- MATH:2850 Calculus III
- MATH:2700 Introduction to Linear Algebra
- STAT:3101 Introduction to Mathematical Statistics II

Year 3, Fall

- STAT:3200 Applied Linear Regression
- BIOS:5310 /STAT:5810 Research Data Management

Year 3, Spring

- STAT:3210 Experimental Design and Analysis

Year 4, Fall

- STAT:4520 Bayesian Statistics
- STAT:6510 Applied Generalized Regression

Year 4, Spring

- STAT:6220 Statistical Consulting