Statistical methods and methods for data analysis are crucial for researching and exploring the life sciences, natural sciences, social sciences, business, nursing, education, and engineering. The Statistics Department offers a variety of introductory courses and more advanced coursework in specialized statistical methodology and applications. The focus of the department’s offerings is applied, computational, and theoretical, with special emphasis on biostatistics, graphics and visualization, federal statistics, and data analytics.

The department offers an undergraduate degree in statistics, as well as a minor in data analysis and a minor in statistics. A variety of advanced undergraduate courses are also available for inclusion in other degree programs.

At the graduate level, the department offers two master’s degrees, and two dual master’s degree programs, as well as a doctoral program.

Courses
Introductory courses are targeted for undergraduates in the College of Humanities and Social Sciences and the College of Health and Human Services, as well as in the Volgenau School of Engineering. The STAT 250 Introductory Statistics I (Mason Core)—STAT 350 Introductory Statistics II sequence is targeted for general audiences, while the STAT 344 Probability and Statistics for Engineers and Scientists I—STAT 354 Probability and Statistics for Engineers and Scientists II sequence is targeted for technical and scientific audiences. STAT 362 Introduction to Computer Statistical Packages deals with computer statistical packages and is appropriate as a second or third course for students from a wide variety of backgrounds. It is strongly recommended for students who elect to minor in data analysis.

Faculty

Department Faculty

Professors
Carr, Davis (associate chair), Rosenberger (chair)

Associate Professors
Diao, Sutton, Tang, Vidyashankar

Assistant Professors
Holmes, Hunter, Izmirli, Johnson, Qiao, Slawski, Strazzeri, Zhao

Emeritus Faculty
Bolstein

Programs

- Applied Statistics Graduate Certificate
- Biostatistics, MS
- Data Analysis Minor