

DEPARTMENT OF STATISTICS

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Statistics is the science of data. Statistical reasoning, methods, design and data analysis are crucial for all disciplines in which data are present. As collection of data grows in all sectors of employment, the Department of Statistics prepares students to meet the challenges of data science, including design of experiments, data collection, curation, analysis, and interpretation.

Department Offerings

Courses

The department offers a variety of introductory, intermediate and advanced courses, including specialized statistical methodology and applications. The focus of the department's offerings is applied, computational, and theoretical, with special emphasis on statistical, biostatistical, graphical and computational statistics, as well as federal statistics, data analytics, and statistics interfaced with modern sciences.

Undergraduate Programs

The Department of Statistics offers an undergraduate Statistics, BS with four concentrations, a Data Analysis Minor and a Statistics Minor, and BS/MS accelerated options. A variety of advanced undergraduate courses are also available for inclusion in other degree programs.

Graduate Programs

The department administers two master's degree programs: Statistical Science, MS and Biostatistics, MS.

Two dual master's degree programs, the Mathematics and Statistical Science Dual-Degree, MS and the Operations Research and Statistical Science Dual-Degree, MS are offered in conjunction with the Mathematical Sciences and Systems Engineering and Operations Research departments, respectively.

Finally, the Statistical Science, PhD represents the highest academic attainment for a statistician and requires in-depth training to gain skills and knowledge of modern statistical theory, methodology, and practice.

Emeritus Faculty

Bolstein, Carr, Miller

Programs

- Biostatistics, MS
- Data Analysis Minor
- Federal Statistical Systems Graduate Certificate
- Statistical Science, MS
- Statistical Science, PhD
- Statistics Minor
- Statistics, BS

Faculty

Department Faculty

Professors

Hu, Rosenberger, Stufken, Sun (Chair), Vidyashankar, Wang

Associate Professors

Hunter, Izmirlı, Qiao, Strazzeri, Sutton

Assistant Professors

Auerbach, Dassanayake, Fadahunsi, Kepplinger, Lee, Pasiyah, Ramazani, Rios, Safikhani, Slawski

Instructors

Holland