

Statistics

Why Study Statistics?

Information is needed to solve complex problems in today's world. But just how much information? What kind? After it is obtained, what must be done with it? How do we account for its uncertainties?

Statisticians are trained to answer these questions. Early admission into the Department of Statistics will allow you to plan so that your math and statistics courses can be taken in the most efficient sequence.

Career Opportunities

There are many opportunities with an undergraduate major in statistics. As a statistician, you will work to find answers to problems in fields such as data science, marketing and finance, engineering, sports analytics, medicine, and a wide variety of sciences. For example, statisticians create surveys and experiments to

find out how popular a television show is or how effective a drug is. Using only a small sample of people, statisticians can give reliable results about how an entire population will behave. Alternatively, in the world of "big data," statisticians work to find and extract information from huge databases, such as optimal defensive shift of a baseball team given a particular batter. Many statisticians work for government agencies and also in private enterprises. However, most statisticians continue on to get a more advanced degree (a master's or doctorate).

Statistics at Mizzou

The department offers both [bachelor of arts and bachelor of science degrees](#). For a [minor](#), a minimum of 15 hours in statistics courses at the junior/senior level is required. We offer departmental honors, as well.

\$117 K

Median salary of statisticians*

Ranked #1 Best Business Job by *U.S. News and World Report*, 2018

*American Statistical Assn. salary survey of business, industry, and government statisticians, 2017



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Additionally, many statistics students choose to double major. Common second majors are mathematics, computer science, economics, engineering,

psychology, sociology, education, and journalism.

The [American Statistical Association DataFest](#) is a celebration of data in which teams of undergraduates work around the clock to discover and share meaning in a large, rich, and complex data set. Students work in teams of two to five to analyze a data set that is revealed at the kickoff of the event. After two days of intense data wrangling, analysis, and presentation design, each team does a short presentation to impress a panel of judges.

Undergraduate Scholarships

The [Albert Winemiller Undergraduate Scholarship](#) is available to undergraduate statistics majors at Mizzou. There are also scholarships available through the College of Arts and Science.

Undergraduate Research & Internships

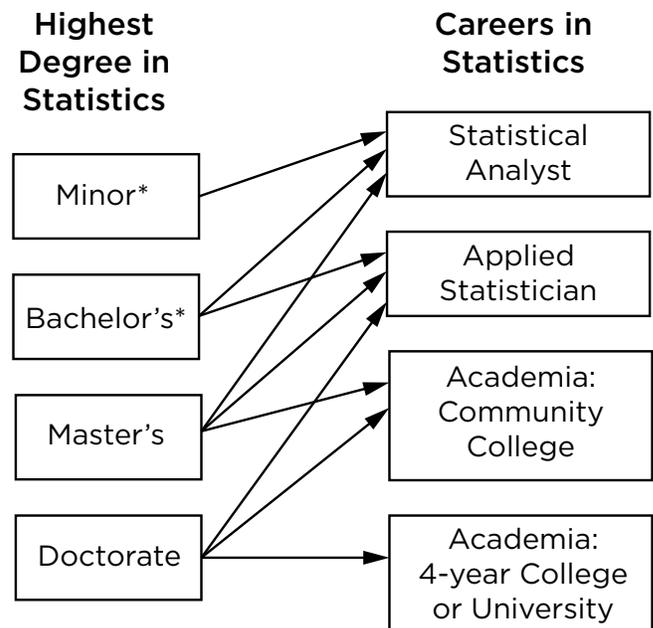
The department provides numerous opportunities for you to work with professors on cutting-edge research projects. Mizzou statistics students have presented their research at national conferences and have published in peer-reviewed scientific journals.

Getting Involved

The [Undergraduate Statistics Club](#) is a student-managed organization that creates opportunities for you to network with other students interested in the statistical field. It is a social organization that provides a chance to get to know professors and graduate students in the department during various social and academic activities.

What Our Recent Alumni Do

In public service: Mathematical statistician for the U.S. Census Bureau • Data scientist at a municipal fire department • **In health and wellness:** Clinical trial statistician at a pharmaceutical company • Animal health statistician • **In the technology sector:** Data analyst at an online retailer • Machine learning developer for a cloud-computing company • **In environment and science:** Data analyst of marine life • Biostatistician at NASA



*Might also take a position in an application area that requires some statistical training.

For More Info

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Complete undergraduate course listing:
catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/statistics/#courseinventory

MU Admissions: admissions.missouri.edu



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