

Statistics, BS, BA

Emphases: Actuarial Science

Department: Mathematics and Statistics Department

College: College of Science

Overview

About This Degree

Statistics is the science of characterizing uncertainty and extracting information from numerical data. Statistics majors at USU receive a solid education in areas like probability, linear regression/ time series, experiment design, quality control, and various areas in statistical analysis.

Essentially, statisticians can work in any career or for any company where data is collected or analyzed. Because of this, and the fact that not enough people graduate in statistics to meet the current career demand, USU statistics majors have an extremely high job placement after graduation. The Mathematics and Statistics Department is a close-knit unit where students receive individual attention from faculty mentors and the opportunity to pursue undergraduate research.

Students receive a **BS** by completing all required courses in the major. To receive a **BA**, students must also gain proficiency in one or more foreign languages.

Career Options

This degree prepares students for careers as statisticians and analysts who can work for almost any type of company, industry, or organization.

Actuarial Science Emphasis

Students who graduate in actuarial science work as actuaries in the following areas:

- Insurance companies
- Banks
- Finance industry

[Career Services](#) provides counseling and information on hundreds of job and internship opportunities and even helps students apply and interview.

What it takes

Admissions Requirements

In addition to Utah State University's [admissions requirements](#), the statistics program has additional requirements:

- **Freshmen:** New freshmen admitted to USU in good standing qualify for admission to this major.
- **Transfer students:** Transfer students from other institutions and students transferring from other USU majors need a 2.2 total GPA to be accepted into the program.

International students have [additional admissions requirements](#).

Major Requirements

[Click here](#) to see course requirements for the **Bachelor of Science**.

[Click here](#) to see course requirements for the **Bachelor of Arts**.

Contact

Advising

All new USU students participate in a [New Student Orientation](#) program, where they receive detailed information about major requirements, registering for classes, and other important advising information.

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Get Involved

Professional Organizations, Honor Societies, and Clubs

American Statistical Association: ASA is the largest organization of mathematicians in industry and academe. The ASA supports excellence in the development, application, and dissemination of statistical science through meetings, publications, membership services, education, accreditation, and advocacy. Its members serve in industry, government, and academia in more than 90 countries, advancing research and promoting sound statistical practice to inform public policy and improve human welfare.

Biometric Society: ENAR and WNAR (the eastern and western North American regions) is an association of statisticians working on problems in statistics with biological, agricultural, and medical applications. The society's goal is to advance biological and life science through the development of quantitative theories and the application, development, and dissemination of effective mathematical and statistical techniques.

Institute of Mathematical Statistics: IMS is an organization mainly for research statisticians working in academe. The IMS is an international professional and scholarly society devoted to the development, dissemination, and application of statistics and probability. The institute has members in all parts of the world.

Interface Foundation: This is a society working on problems at the interface between statistics and computing sciences. Its members are computational scientists, statisticians, mathematicians, and individuals from related discipline areas interested in the interface between computing science and statistics. Interests include topics such as computational statistics, statistical software, exploratory data analysis, data mining, pattern recognition, scientific visualization, and related fields.

Journal Club: The purpose of the Journal Club is to introduce participants to mathematics and statistics education research by providing an opportunity to read, present, and discuss noteworthy papers in the field. The primary intended audiences are graduate students and faculty members interested in starting research on education topics, and needing familiarity with the education literature.

Labs, Centers, Research

With the second oldest [undergraduate research](#) program in the nation, USU offers students a wide range of opportunities to gain hands-on research experience. The [Undergraduate Research and Creative Opportunities](#) program allows students to apply for grants and receive funding. USU's [Honors Program](#) prepares students for excellent graduate programs by helping them build relationships with professors, participate in research projects, take smaller, more intensive classes, and develop leadership skills.