

Mathematics/Statistics (Composite), BS

Department: Mathematics and Statistics Department

College: College of Science

Overview

About This Degree

The mathematics/statistic (composite) major allows students to reap the benefits of applied mathematics and also the benefits of statistics, keeping both doors open for greater marketability and graduate school options. Through the program's coursework, students can gain essential knowledge in both areas, giving them a greater knowledge base.

Through the mathematics portion of the curriculum, students gain a solid education in areas including algebraic structures, analysis/advanced calculus, complex variables, partial differential equations, and more. They also take courses in computer science and physics to learn how to use mathematics in applied settings solving real problems

In their statistics coursework, students study 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, making it a smart career choice with lots of possibilities.

Career Options

With a degree in mathematics/statistics (composite), students can work as mathematicians, statisticians, or analysts in the following areas:

- Aerospace and transportation equipment manufacturers
- Chemical and pharmaceutical manufacturers
- Communications service providers
- Computer service and software firms
- Electronics and computer manufacturers
- Energy systems firms
- Engineering research organizations
- Financial service and investment management firms
- Pharmaceutical research and development

[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 mathematics/statistics (composite) 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**.

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.

Math Club: This club enables students interested in mathematics to network and be educated in a fun, non-classroom environment. Members have the opportunity to listen to unique guest speakers who are experts in the field of mathematics and statistics.

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.