Statistics, Minor

ASSTAMIN

In this age of big data and the proliferation of sensors, nearly every industry is generating immense amounts of data. With the tools that help make sense of analytics, you'll be able to delve confidently into the numbers to extract and infer actionable information hidden within.

Description

Data is increasingly the lifeblood of decision-making, and the discipline of statistics studies how to gain insights from data. The minor program in statistics is intended for students in STEM majors who wish to significantly increase their grasp of statistics and probability at the upper-division level.

The core courses of STP 280 and STP 281 provide foundational skills in probability, the analysis of distributions and the most common methods of inference. Later, more advanced coursework allows for specialization in nonparametric regression, statistical computing, multivariate analysis or other specialized topics.

The completion of this minor in statistics indicates to employers and graduate school admission committees that students have had significant training in the proper handling, analysis and interpretation of data.

At a Glance

- **College/School:** New College of Interdisciplinary Arts and Sciences
- **Location:** West campus

Program Requirements

Minor Map (Archives)
The minor in statistics consists of 19 credit hours, of which nine must be upper-division. A minimum of six credit hours must be taken through courses offered by the School of Mathematical and Natural Sciences. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

**Required Courses -- 13 credit hours**

- **MAT 271: Calculus with Analytic Geometry II (MA)** (4)
- **STP 280: Probability and Statistics for Researchers (CS)** (3)
- **STP 281: Statistical Analysis for Researchers** (3)
- **STP 310: Design and Analysis of Experiments** or **STP 311: Regression and Time Series Analyses** (3)

**Upper Division Electives -- 6 credit hours**

- **STP 310: Design and Analysis of Experiments** (3)
- **STP 311: Regression and Time Series Analyses** (3)
- **STP 315: Statistical Computing** (3)
- **STP 394: Special Topics** or **STP 499: Individualized Instruction** (3)
- **STP 421: Probability** (3)
- **STP 450: Nonparametric Statistics** (3)
- **STP 452: Multivariate Statistics** (3)
- **STP 460: Categorical Data Analysis** (3)

Three credit hours of STP 394 or STP 499 may be used towards elective requirements.

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.

**Enrollment Requirements**

**GPA Requirement:** None

**Incompatible Majors:** BS in statistics

**Other Enrollment Requirements:** None

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. A student should consult an academic advisor in the unit that offers the minor to ensure they take an appropriate set of courses. They also should consult an academic advisor in the major to make sure that college or department allows recognition of the minor; certain combinations of major and minor may be deemed inappropriate by either offering unit. Courses taken for the minor may not count toward both the major and minor. Students should contact the department offering the minor for more information.
Career Opportunities

A minor in statistics is an excellent addition for students with an interest in data and data analytics. Graduates work in a variety of fields, including government, business, healthcare and technology.

Contact Information

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