

Statistics, Minor

ASSTAMIN

In the age of big data, nearly every industry seeks individuals with specialized skill sets in collecting, organizing, analyzing and interpreting complex numerical data. Gain a basic understanding of the tools needed to make sense of analytics and data.

Description

Data is 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 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 Valley](#)

Program requirements

[2024 - 2025 Minor Map](#)

[Minor Map \(Archives\)](#)

The minor in statistics consists of 15 credit hours of coursework, of which a minimum of nine hours must be upper division. A minimum of six upper-division credit hours must be completed through courses

offered by the School of Mathematical and Natural Sciences. Credit hours may not be shared between major and minor requirements. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

Required Courses -- 9 credit hours

[STP 281: Statistical Analysis for Researchers](#) or [STP 420: Introductory Applied Statistics \(QTRS OR CS\)](#) (3)

[STP 310: Design and Analysis of Experiments](#) (3)

[STP 311: Regression and Time Series Analyses](#) (3)

Upper Division Electives -- 6 credit hours

[MAT 422: Mathematical Methods in Data Science](#) (3)

[STP 315: Statistical Computing](#) (3)

[STP 421: Probability](#) (3)

[STP 450: Nonparametric Statistics](#) (3)

[STP 451: Quality Improvement](#) (3)

[STP 452: Multivariate Statistics](#) (3)

[STP 460: Categorical Data Analysis](#) (3)

[STP 494: Special Topics](#) (1-4)

[STP 499: Individualized Instruction](#) (3)

STP 494 is repeatable for different topics. STP 499 may be taken only once, up to three credit hours.

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. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and minor.

Career opportunities

A minor in statistics is an excellent addition for students who are interested in data and data analytics. Graduates work in a variety of fields, including government, business, health care and technology.

Contact information

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