

Bachelor of Science in Statistics

Admission Requirements

Please check with the SDSU home page under [prospective students](#). The Office of Admissions has up-to-date information web pages for all aspects of the admissions process.

Emphasis Programs: Actuarial Science & Data Science

There are 3 options for undergraduate degrees available to students. In addition to a **BS in Statistics**, students may obtain a **BS in Statistics with an emphasis in Actuarial Science** or a **BS in Statistics with an emphasis in Data Science**.

Overview

Statistics is the science that studies data-its collection, description, analysis, and interpretation. Almost all modern professions, from economics to engineering and from social science to medical science, rely on statistics. Statistical methods are used for studying relationships, predicting results, testing hypotheses, and a variety of other purposes.

The Bachelor of Science degree in statistics is designed to provide students with a fundamental understanding of probability and mathematical statistics, a complementary knowledge of basic methods for data collection and inference, and practical computing skills to carry out statistical analyses of problems in many different areas of application.

Statistics is the field at the heart of the scientific method of discovery. Statistical principles are used in designing experiments and surveys to collect information. Statistical procedures are applied to summarize information, draw conclusions, and make decisions.

Because of the broad applicability of their training in statistical reasoning and data analysis, undergraduate majors are prepared for careers in diverse fields-such as biotechnology, environmental science, insurance, industrial manufacturing, and market research-in which the need for professionally trained statisticians is great.

Graduates who seek to acquire additional skills in applied or theoretical statistics may also consider programs of advanced study at the master's or doctoral level. Statisticians with advanced degrees are sought for senior positions in industry and governments, as well as for teaching positions in secondary schools, community colleges, and universities.