

# STATISTICS, B.S.

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**Begin Campus:** Any Penn State Campus

**End Campus:** University Park

## Program Description

This major helps prepare students with interests in mathematics, computation, and the quantitative aspects of science for careers in industry and government as statistical analysts, or for further graduate training in statistics. The major includes five options:

1. An Actuarial Statistics Option for students interested in working as actuaries in the insurance or business fields;
2. An Applied Statistics Option for students interested in a cross-disciplinary program, such as econometrics, or psychometrics;
3. A Biostatistics Option for students interested in pursuing careers with pharmaceutical companies, research hospitals or other fields in which biological data is analyzed;
4. A Graduate Study Option for students planning to go to graduate school in a statistics-related field; and
5. A Statistics and Computing Option for students wishing to combine statistical expertise with programming skills.

## What is Statistics?

Statistics is the field of study of that uses mathematics, computing, and analysis, to organize and understand data. Statisticians use critical and abstract thinking through the application of mathematical principles to statistical problems, and combine modeling with computational skills to analyze data.

## You Might Like This Program If...

- You enjoy problem solving and creative thinking.
- You have a passion for turning information into decisions, discoveries, and insight.
- You want to develop a skillset in high demand across a variety of fields in science, technology, finance, risk analysis, manufacturing, research, and industry.