

# Introduction to Statistics

## At a glance

- Accepted for credit transfer by Strayer University
- 4.5 quarter credits at Strayer University
- Strayer University equivalency: Statistics (MAT 300)

## Course description

Sophia's Introduction to Statistics course helps you gain mastery of the basic principles of statistics. In this course, you will learn a variety of topics, including statistical principles, research methodologies, data analysis, and hypothesis testing. You will also have the opportunity to demonstrate the application of these topics in statistics to everyday situations.

## Assessments & grading

This is a pass/fail course. You must complete 18 Challenge assessments (these are like quizzes) and 6 Milestone assessments (these are like tests) with an overall score of 70% or better.

## Learning outcomes

At the end of the course, you'll be able to:

- Understand and identify key principles of statistical reasoning and statistical methods.
- Apply concepts of data and data representation in a real world context.
- Calculate variation and central tendency and recognize patterns in distributions.
- Apply concepts of probability and risk in real life scenarios.
- Determine correlation and causation and distinguish between them in context.
- Apply concepts of hypothesis testing and utilize t-tests, z-tests, and ANOVA in real world situations.