

# STAT 101: Introduction to Statistics

In this course, students will be introduced to basic statistical theory, real-world statistics applications, and statistical test implementations in R. Students will learn the theory behind common statistical tests and how to perform them before moving on to perform statistical analyses using a dataset of their choice. Through this process, students will learn how to select the correct test for a dataset, how to design experiments amenable to statistical analyses, and how to avoid common statistical analysis pitfalls.

## Learning Objectives

- Use and interpret results of basic statistical tests
- Select the appropriate statistical test for a given data analytics problem
- Design experimental procedures with statistics in mind
- Use R to run basic statistical analyses

**Credits:** 1

**Class Type:** Graduate Course

**Program:** Bioinformatics and Data Science

**Availability** May 2022

**Session** Intersession