

STAT 503: Statistics for Biomedical Scientists II, part 2

The objective of this course is to provide an overview of statistics for biomedical researchers and clinicians who are interested in the interpretation of the results of statistical analyses. This is a series of integrated lectures, readings, and exercises on analysis and interpretation of medical research data using Excel. Emphasis is on ideas and understanding rather than mechanics. Topics covered include the foundation of statistical logic, interpretation of the most commonly encountered statistical procedures in medical research, and selection of an appropriate method to analyze a particular set of data. Those who will be routinely engaged in computing statistical procedures should consider STAT 200.

This is the second part of a two-part course. The completion of the first part (STAT 502) is required before taking the second part. Registration is required separately for each part of the course.

Learning Objectives

- Learn the statistical aspects of processes planning and execution of biomedical research
- Know the assumptions of statistical methods, how to evaluate them, and how to respond to concerns
- Learn more complicated statistical methods than those presented in STAT 500 I
- Be able to build multivariable models and learn how they contribute to causal inference

Credits: 2

Class Type: Graduate Course

Prerequisites:

STAT 502

The above course(s) or permission from the instructor.

Program: Bioinformatics and Data Science