

STAT 500: Statistics for Biomedical Scientists I, part 1

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. The second semester expands on the material covered in the first semester.

This is the first part of a two-part course. Registration is required separately for each part of the course.

Learning Objectives

- Understand the role of chance in biomedical research
- Become knowledgeable about processes of estimation and statistical inference
- Learn about the statistical methods most often used in biomedical research
- Select appropriate statistical approach to analyze a set of biomedical research data
- Use Excel to analyze biomedical research data

Credits: 2

Class Type: Graduate Course

Program: Bioinformatics and Data Science