

Syllabus for HIMT350

Statistics for Healthcare

NOTE: This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

Course Description

This is an introductory course in statistical methods used in applied research for the biological sciences. The course will emphasize the principles of statistical reasoning, underlying assumptions, hypothesis testing, and careful interpretation of results. Some topics covered: descriptive statistics, graphical displays of data, probability, confidence intervals and tests for means, differences of means, sample size and power, differences of proportions, chi-square tests for categorical variables, regression, multiple regression, and non-parametric statistics.

Prerequisite(s)

None.

Course Outcomes

This course will emphasize much more than just number crunching. You will develop a new set of reasoning skills that will provide a foundation for designing, analyzing and interpreting research in the biological sciences. This knowledge and these skills are essential in today's healthcare environment, which emphasizes evidenced-based healthcare and health outcome evaluation.

At the conclusion of this course, you will be able to:

- Articulate the basic concepts and techniques of statistics for healthcare.
- Appreciate the vital role of statistics in determining study designs.
- Apply statistical analyses to conduct and interpret healthcare data.
- Demonstrate the scope of statistics and its essential role in promoting evidenced-based healthcare and health outcome evaluation.

Grading

The following grading scale will be used to evaluate all course requirements and to determine your final grade:

Grade	Percentage Range
A	90% - 100%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	0 - 59%

Assignment	% of Course Grade
Lesson Quizzes	20
Activities	10
Exam 1	20
Exam 2	20
Final Exam (comprehensive)	30
Total	100%