

Course Description:

This course provides and an introduction to descriptive and inferential statistics for health science majors.

Credits: Three (3)

Course Format and Modes of Instruction:

Online undergraduate course that relies heavily on completion of regular activities, and assignments. Students are expected to logon weekly and participate in course activities, lectures, and discussions.

Prerequisites:

Successful completion of a college level algebra course is recommended, though not required.

Course Goals and Objectives:

Goals:

The goal of this course is to provide students skills in performing basic statistical work and an understanding of statistical concepts. The course will provide a framework that will allow students to critically evaluate journal articles and results of statistical analysis.

Objectives:

The objective of this course will be met via online lectures, required readings, weekly assignments and online discussions. Upon completion of this course students will be able to:

- explain basic statistical concepts
- demonstrate and explain measures of central tendency and variability
- develop frequency distributions and generate statistical graphs
- understand hypothesis testing and the relationship to the normal curve
- understand basic principles of probability and sample distributions
- understand and interpret parametric and non-parametric statistics
- use Microsoft Excel to carry out basic statistical analysis.

Course Requirements:

Requirements	Weight
Attendance & Participation	5%
Homework Assignments	45%
3 Tests	30%
Final Exam	20%
Total	100%