STATISTICAL METHODS I

STAT 3000/8005

Course Description:

Distributions, introduction to measures of central values and dispersion, population and sample, the normal distribution, inference: single population, inference: two populations, introduction to analysis of variance. Statistical packages on the computer will also be utilized in this course. 3 credits

Prerequisites:

MATH 1310 or equivalent

Overview of content and purpose of the course:

To introduce students to statistical tests and procedures. To introduce the students to computing aspects of the software packages Minitab, SPSS, EXCEL and SAS.

Anticipated audience/demand:

Students from all areas who may desire some knowledge of statistical methodology.

Major topics:

1) Introduction and Categorical Data
2) Quantitative Data
3) Normal Distribution
4) Linear Regression
5) Sampling Distribution
6) Confidence Intervals
7) Hypothesis Testing

Methods:

The method of instruction is presented primarily in lecture form. Graduate students in the course do projects not required of undergraduate students.

Textbook:


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