

# Bemidji State University

## STAT 3660: Statistics for the Health Sciences

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Introduction to descriptive and inferential statistics in the context of the health sciences. Covers data types, methods for summarizing and displaying data, measures of central tendency and variability, hypothesis testing including the analysis of variance and nonparametric techniques, correlation and regression. Students learn to use the statistical software package SPSS for data analysis. Prerequisite: MATH 1170 or consent of instructor.

**B. COURSE EFFECTIVE DATES:** 08/25/2008 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Confidence Intervals
2. Continuous Probability Distributions
3. Discrete Probability Distributions
4. Estimation
5. Graphical Methods of Displaying Data
6. Hypothesis Testing
7. Introduction to Regression & Correlation
8. Introduction to probability
9. Measures of Location
10. Measures of Spread
11. Methods of Creating Data
12. The Coefficient of Variation
13. Types of Data

### D. LEARNING OUTCOMES (General)

1. learn to use the statistical software package SPSS for data analysis.
2. introduce students to descriptive and inferential statics in the context of the health sciences.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted