

# Bemidji State University

## BUAD 2231: Business Statistics I

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Collection, presentation, analysis, and interpretation of business and economic data. Prerequisite: MATH 1170 (or equivalent or higher.)

**B. COURSE EFFECTIVE DATES:** 08/20/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. What is Statistics?
2. Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentations.
3. Describing Data: Numerical Measures
4. Describing Data: Displaying and Exploring Data
5. A Survey of Probability Concepts
6. Discrete Probability Distributions
7. Continuous Probability Distributions
8. Sampling Methods and the Central Limit Theorem
9. Estimation and Confidence Intervals
10. One Sample Tests of Hypothesis
11. Linear Regression and Correlation

### D. LEARNING OUTCOMES (General)

1. determine levels of measurement represented in a data set
2. determine Cartesian plots and measures of skew
3. use Classical and Subjective Probability concepts
4. classify discrete and continuous random variables and their distributions
5. interpret Normal Probability Distributions
6. explain the Central Limit Theorem
7. employ point estimates and confidence intervals
8. employ inferential statistical tests of a One-sample Hypothesis
9. employ inferential statistical tests of a Two-sample Hypothesis
10. employ appropriate graphical representations of data
11. calculate measures of central tendency and dispersion
12. differentiate between a dependent and an independent sample

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted