

# Bemidji State University

## BUAD 3232: Business Statistics II

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Application of concepts for data analysis with emphasis on regression and correlation, time series, analysis of variance, and business forecasting. Prerequisite: BUAD 2231 or consent of instructor.

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

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Sampling Methods and the Central Limit Theorem
2. Estimation and Confidence Intervals
3. One-Sample Tests of Hypothesis
4. Analysis of Variance
5. Linear Regression and Correlation
6. Multiple Regression and Correlation Analysis
7. Index Numbers

### D. LEARNING OUTCOMES (General)

1. be able to compute probabilities by using the normal distribution.
2. be able to understand, explain, and use the central limit theorem as it applies to business situations.
3. be able to construct and apply confidence intervals for population means and proportions.
4. be able to conduct tests of hypotheses and interpret the results in a business situation.
5. be conduct, interpret and apply Analysis of Variance in business settings.
6. be able to construct, analyze, and apply single and multiple regression models in business settings.
7. be able to construct, analyze, and apply index numbers in business settings.
8. be able to demonstrate effective communication skills.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted