COMMON COURSE OUTLINE: Course discipline/number/title: BUS 2212: Business and Economic Statistics

A. CATALOG DESCRIPTION
1. Credits: 4
2. Hours/Week: 4
3. Prerequisites (Course discipline/number): None
4. MnTC Goals (If any): NA

This course is an introduction and overview of business statistics. Topics will include descriptive statistics, probability, sampling methods, confidence intervals, one and two sample tests of hypothesis, analysis of variance, and linear regression. Statistical calculators and software will be used extensively throughout the class. Emphasis is on application of statistical techniques and procedures for solving business-related problems, rather than mathematical theories. College level reading and MATH 0099 is recommended for this course.

B. DATE LAST REVISED (Month, year): January, 2014

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Descriptive statistics
2. Central tendency and dispersion
3. Probability
4. Discrete and continuous distributions
5. Confidence intervals
6. Hypothesis testing
7. Analysis of variance
8. Correlation of linear regression

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Identify and apply the concepts and procedures needed to solve business problems.
2. Design ungrouped and grouped frequency distributions.
3. Calculate and interpret measures of central tendency, dispersion, and expected values.
4. Apply discrete and continuous probability concepts.
5. Demonstrate an understanding of sampling methods.
6. Identify connections between basic statistics and the real world.
7. Build and interpret a confidence interval estimate using key properties of the appropriate sampling distribution.
8. Demonstrate ethical decision-making when applying and interpreting statistical data.
9. Utilize Excel to complete statistical problems.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
Evaluation may include any or all of the following:
1. Exams and quizzes
2. Group activities
3. Assignments and case problems

G. RCTC CORE OUTCOME(S) ADDRESSED:
- Communication
- Critical Thinking
- Global Awareness/Diversity
- Civic Responsibility
- Personal/Professional Accountability
- Aesthetic Response

H. SPECIAL INFORMATION (if any):
1. TI-83 calculator recommended, statistical calculator required.
2. Microsoft Excel required.