Bemidji State University

MBA 5105: Quantitative Analysis for Business

A. COURSE DESCRIPTION

Credits: 3  
Lecture Hours/Week: 0  
Lab Hours/Week: 0  
OJT Hours/Week: *.*  
Prerequisites: None  
Corequisites: None  
MnTC Goals: None

This course reviews and develops the mathematical tools to get ready for the MBA courses. This course provides many applications of finite mathematics including linear mathematics, probability and statistics and the mathematics of finance to demonstrate how to solve quantitative problems and how to relate the basic mathematical tools to business decision making.

B. COURSE EFFECTIVE DATES: 05/11/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Linear Mathematics  
2. Probability  
3. Business Statistics  
4. Mathematics of Finance

D. LEARNING OUTCOMES (General)

1. articulate the importance of linear algebra, statistics and the mathematics of finance to explain the real world applications.  
2. describe linear equations and straight lines.  
3. perform operations on matrices and apply them.  
4. apply linear programing to solve optimization problems.  
5. apply the theory of sets and counting principles to study probability.  
6. describe a set of data and find relationships among variables using tables, graphs, summary statistics and probability distributions.  
7. apply the mathematics of finance to solve the real world applications.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted