Bemidji State University

BUAD 3281: Decision Support Systems

A. COURSE DESCRIPTION
   Credits: 3
   Lecture Hours/Week: *.*
   Lab Hours/Week: *.*
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   Design and development of decision support systems with emphasis on management science techniques using a linear programming tool implemented in Excel. Design, documentation, and auditing standards are defined and applied to models and spreadsheet database applications. Prerequisites: ACCT 1102, BUAD 2280 and MATH 1170 (or equivalent or higher).

B. COURSE EFFECTIVE DATES: 08/13/2008 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Binary Integer Programming to Deal with Yes-or-No Decisions
   2. Forecasting (Supplement)
   3. Linear Programming: Basic Concepts
   4. Linear Programming: Formulation & Applications
   5. Minimum Spanning
   6. Network Optimization Problems
   7. Nonlinear Programming
   8. Queueing Models
   9. The Art of Modeling with Spreadsheets
   10. What-If Analysis for Linear Programming

D. LEARNING OUTCOMES (General)
   1. apply the integration of advanced spreadsheet development across the entire business and management enterprise.
   2. construct spreadsheet techniques to solve real word business case problems.
   3. analyze differing software added packages used with spreadsheets.
   4. identify the decision-making issues involved in business management.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted