Administrative Unit: Business Administration Department, MBA Program
Course Prefix and Number: BUSI 508
Course Title: Decision Science for Business

DIGITAL DESCRIPTIONS

STUDENT DESCRIPTION:  
# Cr Hrs - # Lec Hrs - # Lab Hrs  
3       -    3       -    0

8PAY-HOUR DESCRIPTION:  
Total # = Lec Hrs + Lab Hrs  
3       =    3       +    0  X 2/3

Catalog Description: This course examines quantitative skills useful to managers. Discussions focus on selected algebra topics, mathematics for finance, and descriptive statistics and probability. Prerequisite: Knowledge of College Algebra, Excel® or other computer spreadsheet applications is important.

Prerequisites/Corequisites: Knowledge of College Algebra, Excel® or other computer spreadsheet applications is important.


Course Objectives: To learn to use mathematics as a tool for managerial problem solving. To enhance student development through the use of calculators, software packages, and technological support for business problem solving. Emphasis will be on student participation, interaction, collaboration, and presentation of material.

Topical Outline:  
1. Optimization LP  
2. Modeling LP Problems  
3. Sensitivity Analysis  
4. Network Modeling  
5. Regression Analysis  
6. Integer Linear programming  
7. Project Management

Recommended maximum class size for this course: 15

Prepared by: Joann Wayman

Date: October 27, 2000

NOTE: The intention of this master course syllabus is to provide a general outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught, or where it is taught. This generic outline is not intended to restrict the way any individual faculty member teaches the course. The master syllabus, therefore, should be general enough to allow for a diversity of individual approaches to teaching the course, while at the same time it provides guidance on what the course should cover.