Business Administration

Course Number:	**BUAD 315**
Course Title:	**MANAGEMENT SCIENCE**
Credits:	3

Calendar Description: Management science is a discipline that aids decision-making by

Professors

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Learning Outcomes

Upon completion of this course students will be able to

explain the scientific approach of how to apply systematic methodologies in solving managerial problems that guide decision making.

identify and apply appropriate techniques for managing business problems and correctly interpret the results of analysis through critical thinking.

recognize and explain specific problems including their components and assumptions and solve them using linear programming.

use MS Excel to create quantitative models of management problems and insert appropriate statistical functions in Excel.

solve typical problems using formulas and tables.

Course Objectives

This course will cover the following content: See weekly course schedule.

Evaluation Procedure

Assignments and Quizzes	20%
Mid-term Exam*	40%
Final Exam*	40%
Total	100%

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Course Schedule

Week	Date	Monday, Jan 11 - Classes Start Monday, Feb 15 – Family Day (no classes) Tuesday, Feb 16 to Friday, Feb 19 – Reading Break (no classes) Friday, Apr 16 – Last Day of Regular Classes	
1	Jan 12/13	Probability Distributions – Part 2 Self Study: Ch 3: Q 1, 3, 4, 9, 14, 18, 23, 24, 29, 30 (use EXCEL to solve)	Ch 3
2	Jan 19/20	Decision Analysis Self Study: Ch 4: 1, 3, 7, 8 (a & b), 14, 16 (use MS or Excel to solve)	Ch 4
3	Jan 26/27	Introduction to Forecasting Self Study: Ch 6: 5(b, c&d), 7, 8, 9(a), 13(b&c), 17(b&c) (use MS or Excel to solve)	Ch 6
4	Feb 2/3	Introduction to Linear Programming (LP) Self Study: Ch 7: 2, 7 by hand Ch 7: 13, 14, 31, 35, 42, 43 (use MS to solve)	Ch 7
5	Feb 9/10	LP Sensitivity Analysis Self Study: Ch 8: 1, 2, 5, 6, 10, 12, 13 (use MS to solve)	Ch 8
	Feb 16/17	Reading Break *(no classes)*	
6	Feb 23/24	**MIDTERM EXAM (Chapters 3, 4, 6, 7, 8)**	
7	Mar 2/3	Distribution and Network Models Self Study: Ch 10: 1, 2, 6, 9, 17 (use MS to solve)	Ch 10
8	Mar 9/10	Integer Linear Programming Self Study: Ch 11: 2, 7a–7c (use MS to solve)	Ch 11
9	Mar 16/17	Project Management Self Study: Ch 13: 3, 6, 10, 13, 21 (use MS to solve)	Ch 13
10	Mar 23/24	Waiting Line Models Self Study: Ch 15: 5, 11, 18, 21, 24, 27, 30, 34	