MGT 512 Quantitative Analysis for Business Decision Making
Fall 2008

Instructor: Arash Azadegan Email: azadegan@nmsu.edu 575-646-7570	Office: GU 213 Weekly Chat Sessions: Tue 7-8 pm (using Yahoo! Messenger) Office Hours: Tue/Thu 12-1pm (using Yahoo! Messenger) Yahoo ID: **professorazadegan** (available via phone as well)

Text: "Spreadsheet Modeling & Decision Analysis, 5th edition" by Cliff T. Ragsdale (2007)

Course Description: Identification, collection & analysis of an organization's data both internal & external, & use of the resultant information in managerial decision making. Prerequisite: graduate students only

Course Learning Objectives:

- To develop an understanding of the tools and techniques used in support of managerial decisions.
- To strengthen skills in the use of Decision Support Systems, Spreadsheets, and Web Applications.
- To provide a foundation for specialization in areas that emphasize quantitative applications.

Grading	**Points**
Midterm Exam	1,000
Final Exam	1,000
Weekly Assignments (14 assignments)	1,510
Participation (Discussions for 14 weeks)	490
Total	4,000

- **Academic Integrity**: Cheating will not be tolerated. When taking exams, eyes must remain on your own exam, with your work covered. If there is a suspicion of copying, you, or someone around you will be asked to move, as a first warning. After the second incident, you will be asked to leave. Any evidence of cheating on the exams themselves will lead to an automatic F in the class with possible follow-up discipline. Please refer to the student code of conduct for information regarding appeals processes etc.
- **Incompletes ("I" grades):** Given for passable work that could not be completed due to circumstances beyond the student's control (e.g., severe illness, death in the immediate family). These circumstances must have developed after the last day to withdraw from the course. Requests for "I" grades should be made to the instructor, but must be approved by the Management Department Head.
- **Withdrawals**: It is the responsibility of the student to know important dates such as University drop dates; last day to withdraw with a W is Oct 16. Moreover, it is the responsibility of the student to officially withdraw from any class that he or she intends to drop.
- **Disabilities/Employee Relations**: Call the Director of Institutional Equity at 505.646.3635 with any questions you may have about NMSU's Non-Discrimination Policy & complaints of discrimination, including sexual harassment. Call the Coordinator of Services for Students with Disabilities at 505.646.6840 regarding student issues related to the Americans with Disabilities Act (ADA) and/or Section 504 of the Rehabilitation Act of 1973. All medical

information will be treated confidentially. assistance

MGT 512 Class Schedule				
Wk	**Start***	**SUBJECT**	**Chapter**	**Weekly Assignments****
1	8-21	Intro to Optimization and LP	1	Ch 1: 23, 25, 26
2	8-28	Solving LP in Spreadsheets	2	Ch 2: 6,7,15,16,17
3	9-4	Modeling and Solving LP in Spreadsheets **Onsite; Carlsbad, Wed 9/3 at 6pm**	3	Ch 3: 19,20,21,24,25
4	9-11	Modeling and Solving LP Sensitivity Analysis (only up to page 158)	3 & 4	Ch 3: 26,30,33 Ch 4: 6, Case 4.2
5	9-18	Network Modeling	5 (Part 1)	Ch 5:9,10,11,12
6	9-25	Network Modeling	5 (Part 2)	Cases: 5.2 5.4
7	10-2	Mid-term Exam		No Assignments
8	10-9	Decision Analysis	15 (Part 1)	Ch 15: 9,10,11,12
9	10-16	Decision Analysis and Utility	15 (Part 2)	Ch 15: 13,14,21,23
10	10-23	Decision Analysis	15 (Part 3)	Ch 15:15.1, 15.2
11	10-30	Regression Analysis	9	Ch 9: 8, 9, 19
12	11-6	Discriminant Analysis	10	Ch 10: 5, 6, 7
13	11-13	Time Series Forecasting **Onsite; Carlsbad Wed 11/19 6pm**	11	Ch 11: 15-22 (suvsales.xls)
14	11-20	Simulation	12	Ch 12: 9,14 *Assignments Due: 12/3*
11/24-27		Thanksgiving Holiday – No Class		
15	12-1	Queuing Theory	13	Ch 13: 6,7,8
16	12-8	Final Exam:		

* Weeks start on Thursdays and end on Wednesdays.
** All Assignments are due by Wednesday of the week at 11:55 pm (before midnight).
For Example, Assignments for week 1 are due on August 27, before 11:55 pm.