

MGT 512 Quantitative Analysis for Business Decision Making
Summer– 2009

Instructor: Jeffrey Teich Email: jteich@nmsu.edu WebCT and videos will be used	Office: GU 311 Office Hours: by appointment. Virtual online office hours at other times Skype chat username: jeteich. I will typically reply to email within one hour.
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Process: The course will run for **10 weeks** beginning on May 28th, however no homework will be due during the period from July 8th to July 26th because of my travel. This two week time period might be a good time for you to travel, to catch-up, or work ahead in the course. WebCT will be used to organize the course. Due dates for daily HW submissions (not graded) and for the Cases (Graded) are listed in the tentative schedule below as well as on WebCT. After the deadline, the answers to the homework and cases will be posted, therefore late work will not be accepted. Questions related to course material should be posted on webCT, under “discussions” so that all students will have a chance to join in the conversation. The two Exams will be given via WebCT. Also, Videos of lectures will be posted at youtube, channel “pomscm.”

Text: "Spreadsheet Modeling & Decision Analysis, 5th edition" by Cliff T. Ragsdale (2008) Revised. The 5th edition non-revised 2006 text will probably work as well.

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
1 Midterm Exam	100
1 Final Exam	100
5 Cases and Turn-in Assignments	100
Daily Homework Checks	50
Total	350

- **Academic Integrity:** Cheating will not be tolerated.. 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. 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 575.646.3635 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.

MGT 512 Tentative Class Schedule				
	Week	SUBJECT	CHAPTER	Daily Homework & Cases
	1	Intro to Optimization and LP	1,2	Ch 2: 1,5,6,7,15,16,17 June 1
	1	Intro to Optimization and LP and Solving LP in Spreadsheets	2,3	Ch 3: 18,19,20,21,24,25 June 4
	2	Modeling and Solving LP in Spreadsheets	3	Ch 3: 26,30,33,34 June 8
	2	Modeling and Solving LP in Spreadsheets and Sensitivity	3,4	Ch 3: 46; Ch 4: 5 June 11
	3	Sensitivity Analysis (only up to page 160) and Network Modeling	4,5	Case 4.2 (turn-in) June 16
	4	Network Modeling	5	Beer Case (turn-in) June 22
	4	Mid-term Exam Tentative June 24 th		
	4	Decision Analysis	15	
	5	Decision Analysis and Utility	15	Ch 15: 9,10,14,15 June 26
	5	Decision Analysis and Regression Analysis	15	Ch 15: 11,12,21,23 and Hipre Problem # 30 June 29; Wine Case (turn-in) July 3
	6	Regression Analysis	9	Ch 9: 8, 9 July 7; Turn-in #19 July 27
	9	Simulation	12	Ch 12: 1, 14 July 30; Turn-in #9 August 3
	9	Simulation and Queuing Theory	12,13	Ch 13: 6,7,8 August 6
	10	Electronic Markets, Auctions, Negotiations, Game Theory		
	10	Final Exam Tentative August 7		