Math 270 Managerial Mathematics 3 credits Spring, 2010

Section 1 MWF 10:00-10:50 MRC 348

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Catalog Course Description: The course covers several topics from Finite Mathematics, namely Linear Programming, the Mathematics of Finance, and Probability. Prerequisite: acceptable score on placement exam, grade of C or higher in in MATH 110.

Prerequisite: Acceptable placement score or C grade in Math 110. See me right away if you have a question about your math background as it relates to this requirement.

Text: Finite Mathematics for the Managerial, Life, and Social Sciences, 9th ed., S. T. Tan, Thompson Brooks-Cole Press, 2009.

Core Abilities

1. Thinking: Students engage in the process of inquiry and problem solving.
   A. Reason deductively by learning general principles which are then applied to specific problems.
   B. Reason inductively by studying examples, seeing the common characteristics, and broadening the solution to the generic case.
   This ability will be assessed by evaluating performance on quizzes and exams where problems need to be solved using these acquired thinking skills.

2. Ethical Decision Making: Students respond to ethical issues, using informed value systems.
   A. Develop an appreciation for the honest use of mathematical reasoning.
   B. Practice academic honesty in mastering the material for the course on one's own without cheating.
   This ability will be assessed by evaluating performance of results on quizzes and exams, and observing if academic honesty is present in student work.

3. Communication: Students speak and write to suit varied purposes, audiences, disciplines, and contexts.
   A. Read text and reference materials outside of class.
   B. Observe examples and discusses questions and solutions in class.
   C. Communicate solutions to problems in writing on assignments, quizzes, exams using appropriate mathematical language and format.
   This ability will be assessed by evaluating communication performance on quizzes and exams.

General Course Objectives: This course is designed to cause the student to learn to apply basic mathematical theory to solve typical business problems. Skills needed in FINA 331 and MGMT 447 are developed.

Content: Straight Lines and Linear Functions
Systems of Linear Equations and Matrices
Linear Programming
Mathematics of Finance
Sets and Probability

Grading:	3 exams	300 pts.
	quizzes/homework	100 pts.
	comprehensive final exam	100 pts. (minimum)
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	total	500 pts.

Note: Grades are based on points allocated above. No extra credit. Typically, 90%+ is A, 80%+ is B, 70%+ is C, and 60%+ is D.

Note: Quizzes are "open book, open notes"; exams are "closed book". A sheet of notes and calculator are usually allowed for exams.

Note: All tests taken in regular classroom at scheduled times. No exams taken in learning center unless diagnosed learning disability exists (verified by Jane Eddy in writing).

Note: Final exam must be taken at regularly scheduled time unless approved in writing by the Dean.

Attendance: Required. Guidelines followed are those found in Viterbo University catalog. A valid verifiable excuse must be presented in order to make up missed exams or quizzes. "I overslept", "My ride is leaving early for vacation/ the weekend/ etc.", "I had a busy week and didn't have time to study" are examples of NON-valid excuses. Make-up exams for valid excused absences must be done in a timely manner, usually within one week of return.

Calculating Equipment: Hand-held calculators are permitted for quizzes and exams.

Cheating: First offense - zero credit on pertinent work; second offense - failure in the course. For more, see Academic Honesty Policy in the Viterbo University Student Handbook.

Extra Help: If you find that you need extra help, see me right away. Tutoring can be made available from the Learning Center if necessary.

ADA Statement: If you are a person with a disability and require any auxiliary aids, services, or other accommodations for this class, please see me and Jane Eddy, the Americans with Disabilities Act coordinator (MC332, 796-3194) within ten days to discuss your accommodation needs.
Note: accommodation for special test-taking needs will be made only after these needs are confirmed in writing by Jane Eddy.

Approximate Schedule: Weeks 1-4: Chapters 1 and 2. Exam 1.
Weeks 5-9: Chapters 3,4, and 5. Exam 2.
Weeks 10-13: Chapters 6 and 7. Exam 3.
Weeks 14 and 15: Chapter 8 and review.
Monday, May 10, 12:50-2:50: Comprehensive Final Exam.