Greensheet

Finite Mathematics (Math 70), Fall 2009, San Jose State University
Duncan Hall 250, TuTh 1:30-2:45pm and Duncan Hall 318, TuTh 3-4:15pm

Instructor: Plamen Koev
Office: MacQuarrie 312
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Course web page: http://www.math.sjsu.edu/~koev

Catalog Description: Systems of linear equations and inequalities, matrices, linear programming, set theory, probability theory, applications to business and to social sciences. 3 units.

Prerequisite: Satisfaction of the ELM requirement.

Textbook: Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences, 11th Edition, by Raymond A. Barnett, Michael R. Ziegler and Karl E. Byleen, Pearson/Prentice Hall, 2008

Course Objectives: To learn counting principles, permutations, combinations, probability, probability distribution, expectation, conditional probability, Bayes' formula, matrices, and their applications, solving systems of linear equations and linear inequalities, linear programming, computing interest, present and future value of annuities.

Midtems:
October 1 and November 12.

Final exams:
1:30pm section: December 15 at 12:15-2:45pm

3:00pm section: December 10, 2:45-5:00pm

Outcome Assessment: The midterms are worth 20% each. A comprehensive final exam worth 60%. `You must plan to take the exams at their scheduled times. Exceptions are rarely granted and only in documented circumstances as per University policy.

Homework: Homework will be assigned and graded. If you get a score higher than 60% on the homework, you get a free "plus" added to your grade.

Grading Scale

A:	92-100	A-:	90-91				
B:	82-87;	B+:	88-89;	B-:	80-81		
C:	72-77;	C+:	78-79;	C-:	70-71		
D:	62-67;	D+:	68-69;	D-:	60-61	F:	0 -59

Course Schedule:
Chapter 3, Sec. 1-4, Simple interest. Compound interest. Future value of an annuity. Present value of annuity. (5 hours).

Chapter 4, Sec. 1-6, Systems of linear equations in two variables. Systems of linear equations and augmented matrices. Gauss-Jordon elimination. Basic matrix operations. The inverse of a matrix. Matrix equations and systems of linear equations. (12 hours)

Chapter 5, Sec. 1-3, Inequalitics in two variables. Systems of linear inequalities in two variables. Geometric approach to linear programming. (4 hours)

Chapter 7, Sec. 1-4, Logic. Sets. Basic counting principles. Permutations and combinations. (4 hours).

Chapter 8, Sec. 1-5, Sample spaces, events, and probability. Union, intersection, and complement of events. Odds. Conditional probability, intersection, and independence. Bayes' formula. Random variable, probability distribution, and expected value. (10 hours)

STUDENTS WHO INTEND TO USE THIS COURSE TO SATSFY THE MATHEMATICAL REQUIREMENT FOR GENERAL EDUCATION MUST EARN A C OR BETTER.

Academic integrity. Your commitment to learning (as shown by your enrollment at SJSU) and the university's Academic Integrity Policy require you to be honest in all of your academic course work. Faculty are required to report all infractions to the Office of Judicial Affairs. (See: http://www2.sjsu.edu/senate/S04-12.htm)

Disabilities. If you need course adaptations or accommodations due to a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities register with the Disability Resources Center to establish a record of their disability.

Tutoring. Peer tutoring in calculus is available to all SJSU students, free of charge, at the Learning Assistance Resource Center, in Room 600 of the Student Services Center. See or call x4-2587 for more information.