

Math 70-Finite Mathematics

Instructor: Professor R. Alperin

Office: Duncan 239; Ph: 924-5066; Office Hours MW: 10:45-11:30, 2-3 or by appointment

Catalog Description: Systems of linear equations and inequalities, matrices, linear programming, set theory, probability theory, applications to business and to social sciences. Prerequisite: Satisfaction of the ELM requirement.

Textbook: Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences, 10th Edition, by Raymond A. Barnett, Michael R. Ziegler and Karl E. Byleen, Pearson/Prentice Hall. Password/registration id information for MyMathLab should come with your new textbook. You MUST have a registration id for MyMathLab; it is also available from the university bookstore or www.prenhall.com.

Register in Math 110 (1 unit) if you do not have access to a computer for using MyMathLab.in Math Department lab in MH208.

Homework and Tests: Homework is assigned on-line in MyMathLab.; homework must be done on time in MyMathLab at www.coursecompass.com. The course id is alperin54494. See full instructions below.

Homework can be repeated as needed (deadlines are listed on-line) to pass the homework portion of the course (D- is 40%). There will be two in-class midterms tests (100 points each), final exam (150 points) and homework (50 points). Midterms will be announced in class and it is your responsibility to be prepared at the appointed time. No late mid-terms will be given except for medical reasons.

Course Schedule

Chapter 3	Sec. 1-4	Simple interest. Compound interest. Future value of an annuity. Present value of annuity. (2.5 weeks).
Chapter 4	Sec. 1-6	Systems of linear equations in two variables. Systems of linear equations and augmented matrices. Gauss-Jordan elimination. Basic matrix operations. The inverse of a matrix. Matrix equations and systems of linear equations. (4 weeks)
Chapter 5	Sec. 1-5	Systems of linear inequalities in two variables. Geometric approach to linear programming. The simplex method. The dual problem. (3.5 weeks)
Chapter 6	Sec. 2-4	Sets. Basic counting principles. Permutations and combinations. (1.5 weeks).
Chapter 7	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. (3.5 weeks)

***MyMathLab* is an interactive website where you can:**

- Access the Student Solutions Manual
- View Video Lectures to review and increase understanding
- Practice exercises to help with specific textbook sections
- Self-test to improve skills
- Work interactive problems in the multimedia textbook
- Use customized materials prepared by your instructor

What do I need to get started?

- ✓ **A Valid Email Address**
- ✓ **Course ID:** alperin54494
- ✓ **Student Access Code** Packaged free of charge with the required textbook—**Barnett's Finite Mathematics, 10th Edition, SJSU Custom Version**—at the Spartan Bookstore and Roberts Bookstore.

What steps do I take next?

1. In order to register, you will need to use this Course ID: alperin54494
2. Go to www.students.pearsoned.com and click on “Registration.” Enter your six-word access code found inside your Student Access Kit. This code is found under the yellow tab that reads “Student Access Code.”
3. Register only ONCE using the information above. You will create your own Login Name and Password.
4. After you have registered, Login (bookmark this URL) at <http://students.pearsoned.com> using the Login Name and Password you have just chosen.
5. From the “Welcome” page click on your course, then choose the “Installation Wizard” link to check that your computer has the required set up and plug-ins.
6. For help on entering answers, go to an audio tour at <http://www.mymathlab.com/tours.html> and click on the How to Enter Answers Using the MathXL Player link.

If you have questions or need assistance, call technical support at 1-800-677-6337.