



Math 33

Course Information Sheet

Textbook: Tan, S. T., **Finite Mathematics**, 9th Ed, Thomson Brooks/Cole Publishing, 2009.
ISBN 0-495-38753-3

Course Outline of Record: Every section of M33 is required to cover all of the material as listed on the Course Outline of Record. It is our contract with our transfer institutions, with each other and our students about what the course will detail. Failure to do so puts your students at a disadvantage, leads to discrepancies across the sections, and problems for the students in their next course. Any instructor who does not attempt to follow the course outline carefully risks the possibility of not being able to teach that course again at LPC. All course outlines of record can be found on the Las Positas College Website under Programs/Courses.

http://www.laspositascollege.edu/programs/course_outlines/math_index.php

Example Syllabus and Calendars to aid in pacing of the material can be obtained by contacting Lilia Camino, our Division Assistant at (925) 424-1184.

Suggestions regarding content: This course is really broken up into groups of three related subjects: Group 1: Linear Systems and Linear Programming, Group 2: Mathematics of Finance and Group 3: Set Theory, Counting and Probability.

Group 1: Linear Systems and Linear Programming

- Chapter 1, sections 1 – 4: Linear Relationships and Functions (optional: section 5, Method of Least Squares)
- Chapter 2, sections 1 – 6: Systems of Linear Equations and Matrices
- Chapter 3, Sections 1 – 3: Linear Programming

Group 2: Mathematics of Finance

- Chapter 5, sections 1 – 3: Mathematics of Finance (include use of logarithms)

Group 3: Set Theory, Counting and Probability

- Chapter 6, all sections: Sets and Counting
- Chapter 7, sections 1 – 5: Probability (optional: section 6, Bayes' Theorem in 7.6)

All other chapters should be omitted.

Technology is a mandatory and integral part of this course; all students should be taught to become proficient in using a TI graphing calculator to explore the mathematics presented throughout the entire semester.

Student Learning Outcomes: Student Learning Outcomes, SLOs, are learning proficiencies the Department feels every student enrolled in our math classes should be encouraged master.

The course-level SLOs for Math 33 connect with our program level SLOs of: **Technology, Modeling and Problem-Solving**. These course-level SLOs should be listed in your syllabus for the course.

Please refer to the Mathematics Department website for more SLO information.

Upon successful completion of Math 33, a student should be able to demonstrate:

- the ability to solve an applied problem using technology (Technology).
- the ability to solve a system of linear equations in matrix form (Problem Solving).

- the ability to model an applied problem by writing a system of linear inequalities or equalities (Modeling).

Math Lab Requirements: There is a required TBA lab hour attached to this course, part of the course outline of record. Your syllabus must state that students are required to attend the lab for one hour per week for a minimum of 17 lab hours over the semester. The Open Math Lab provides a place for students to get the help they need to succeed in math. To satisfy their lab requirement, students must go to the **Integrated Learning Center, ILC**, to work on lab assignments, created by you. Lab assignments must be something more than doing homework. There are many examples of good math labs that the department is currently collaborating on; we encourage you talk with other instructors and share labs. To allow for maximum flexibility, the hour is TBA (to be arranged), rather than scheduled. More information will be mailed to you before the beginning of the semester.