Math 45
Course Information Sheet


Course Outline of Record: Every section of M45 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:
1) Chapter P: quickly review (one to one-half of a class period)
2) Give labs on modeling sections like 1.2, etc., and application problems
3) Skip 2.1, 2.3, 2.4
4) Double up on chapter 1 and 3 stuff (2 sections, or so, per lecture)
5) Skip partial fractions (6.4)
6) Early sections of chapter 6 can be reviewed quickly
7) Skip determinates and Cramer’s Rule (7.4)
8) Only cover 8.1 from chapter 8.
9) Skip mathematics of finance and mathematical induction (9.4, 9.5)

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 45 connect with our program level SLOs of: Technology, Multiple Representations, 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 45, a student should be able to demonstrate:
- the ability to find all roots of a polynomial function (Problem Solving).
- the ability to use technology to sketch the graph of a given function (Technology).
- the ability to analyze a rational function symbolically and graphically (Multiple-Representations).
- the ability to solve an applied problem using systems of linear equations (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 to 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.