



Math 65

Course Information Sheet

Textbook: Rockswold, G., Krieger, T., Beginning & Intermediate Algebra, 2nd Ed., Pearson/Addison Wesley, 2009. ISBN-13: 978-0-321-50005-2.

Course Outline of Record: Every section of Math 65 is required to cover all of the material as listed in the Course Outline of Record. It is our contract with our transfer institutions, with each other and our students about what the course will include. Failure to follow the outline puts your students at a disadvantage in their next course and leads to discrepancies across the sections. Any instructor who does not follow the course outline carefully risks the possibility of not being allowed 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

or on the Mathematics Department Blackboard site.

Math 65 Course Materials are available on the math department's blackboard site. These materials include: the course outline of record; a table summarizing teacher resources for this course (e.g., labs, group activities); core lab assignments; sample homework lists; and, a sample course calendar. To gain access to this site, please contact the course coordinators Brenda Weak or Ashley McHale.

Suggestions regarding content: Math 65 content includes all sections of Chapters 1 – 6 and sections 1 – 3 of Chapter 7.

- **Chapter 1:** This chapter is largely a review of material from Pre-Algebra and can be covered fairly quickly. It is recommended that you spend no more than 5 days on this chapter.
- **Chapter 6:** course content includes solving both quadratic and higher-degree polynomial equations by factoring
- **Chapter 7:** cover only sections 1 – 3. In Math 55 students will review sections 1 – 3 and then cover the rest of the chapter.

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 65 connect with our program level SLOs of: **Communication, Multiple Representations** 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 65, a student should be able to demonstrate
 - the ability to interpret slope in the context of a problem (Communication).
 - the ability to graph the solution set of a given linear equation in two variables using the rectangular coordinate system (Multiple Representations).
 - the ability to solve a polynomial equation using factoring techniques (Problem-Solving).

Math Lab Requirements: There is a required TBA lab hour attached to this course, part of the course outline of record. To allow for maximum flexibility, the hour is TBA (to be arranged), rather than scheduled. To satisfy their lab requirement, students must go to the **Open Math Lab** in the

Integrated Learning Center, ILC, to work on lab assignments. The Open Math Lab provides a place for students to get the help they need to succeed in math. 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. We recommend a minimum of eight lab assignments be given (students may be given more than one week to complete an assignment). Lab assignments must be something more than doing homework. **CORE LAB** assignments for Math 65 have been created and are available on the Mathematics Department Blackboard website for all LPC Math 65 instructors. Contact the Math 65 course coordinators Brenda Weak or Ashley McHale for more information. In addition, there are many examples of good math labs that other instructors have created; we encourage you to talk with other instructors and share labs.