



Math 38

Course Information Sheet

Textbook: Lial, M. L., Hornsby, J., Schneider, D. I., Trigonometry, 9th Ed., Pearson Addison Wesley Publishing, 2009. ISBN 9780321528858; Bass Alan, Geometry, Fundamental Concepts and Applications, Pearson/Addison-Wesley. ISBN-13: 978-0-321-47331-8

Course Outline of Record: Every section of M38 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: Chapters 1 – 9 from Geometry, Fundamental Concepts and Applications (3 weeks) and Chapters 1 – 8 from Trigonometry (15 weeks).

Graphing calculators are required in this course and their use should be integrated into the course. Students who take this course and enter Pre-calculus should be proficient at using a graphing calculator.

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 of Math 38 connect with our program level SLOs of: **Problem solving, Modeling and Multiple Representations**. 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 38, a student should be able to demonstrate
 - the ability to solve equations containing trigonometric expressions. (Problem solving)
 - the ability to transform trigonometric expressions using basic trigonometric identities. (Problem solving)
 - the ability to apply trigonometric concepts to solve an application problem. (Modeling)
 - the ability to graph a transformation of a trigonometric function. (Multiple Representations)

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.