

L.A.M.C.

Math-112, FALL 2012 Section 3218

Instructor: Oscar E. Garcia
E-mail: GarciaOE@lamission.edu

Office Phone: (909) 263-1197

Textbook: Prealgebra, Sixth Edition.

Author: Elayn Martin-Gay

Lecture Hours: Monday and Wednesday 7:00 PM to 8:25 PM,

Office Hours: Wednesday 6:00 – 7:00 or prearranged by calling 909-263-1197

Office Hour Location: Library, first floor, in front of the Math lab.

Course ID: **garcia56454**

Course Objective

This course is an introduction to algebra, and attempts to teach students how to read, write, and think using simple arithmetic language, analytical skills, and lots of common sense. The course begins with emphasis in the required arithmetic foundation, and gradually moves into algebra. Through the course we will have a great deal of opportunities to practice the learned skills.

Tutoring

If you would like to get additional assistance, free tutoring is available at the Math Center located in the basement of the Campus Center Building. You may access MyMathLab online tutorial for additional help @ www.coursecompass.com

Homework

*Students enrolled in this section of Math 112 are required to register with MyMathLab online program and enroll in my section course ID: **garcia56454** to complete the required online homework and quizzes. Students must complete all online homework and chapter quizzes by the stated due date shown online.*

Grade

Your grade will be determined by three exams to be given during the semester and the final exam. In addition, a 15 minutes quiz will be given at the end of each chapter. Together, all homework and quizzes will count for one test. All exams will be grade according to the following scale:

90 - 100	A
80 - 89	B
65 - 79	C
50 - 64	D
0 - 49	F

***Special Note: Student Learning Outcomes for Math 112**

- 1) Utilize the real numbers and arithmetical operations efficiently and adaptively.
- 2) Use algebraic symbols and variables to express stated relationships between different quantities.
- 3) Write and solve simple linear algebraic equations and application problems.
- 4) Describe and analyze mathematically the spatial features of objects.

Student Learning Outcomes will be assessed periodically. During the SLO assessment semester, the math department will provide a set of questions for instructors to include the questions in their final exam. Instructors will grade the questions according to a given rubric and will report the result of the assessment in a table format provided by the department.

Course Outline

Topics to be covered	Sections From Text	Time Line
Operations on Whole Numbers; Rounding; Exponents; Order of Operations and Introduction to Variables; Expressions and Equations.	Chapter 1: All 8 Sections	1 Week
Operations on Integers, and Solving Equations	Chapter 2: All 6 Sections	1 ½ Weeks
Simplifying Algebraic Expressions by combining like terms; Solving Equations and Problem Solving	Chapter 3: All 4 Sections	1 Week
Fractions and Mixed Numbers: Operations on Fractions and Mixed Numbers; GCF; LCM; Complex Fractions and review of Order of Operations; and Solving Equations	Chapter 4: All 8 Sections	2 Weeks
Decimals: Operations on Decimals; Fractions and Decimals; Solving Equations	Chapter 5: First 6 Sections (skip 5.7)	2 Weeks
Ratio, Proportion and Triangle Application: Ratios and Rates; Proportions and Problem Solving; Square Roots and the Pythagorean Theorem; Congruent and Similar Triangles	Chapter 6: All 5 Sections	1 Week
Percents: Percents, Decimals and Fractions; Solving Percent Problems; Applications of Percent; Problem Solving (Compound Interest: Optional)	Chapter 7: All 6 Sections	1 ½ Week
Graphs: Reading graphs; Plotting Ordered Pairs; Graphing linear Equations in Two Variables	Chapter 8: First 4 Sections (skip 8.5)	½ Week
Geometry: Lines and Angles; Perimeters; Areas , Volumes and Surface Areas; Linear Measurement; Weight and Mass; Capacity.	Chapter 9: First 6 Sections (skip 9.7)	1 Week
Exponents and Polynomials: Adding and Subtracting Polynomials; Multiplication Properties of Exponents; Multiplying Polynomials.	Chapter 10: First 3 Sections (10.4 Optional)	½ Week