Los Angeles Mission College

Syllabus for Math 112
Fall' 2008

Course : Prealgebra
Ticket Number : 3069
Evening Class : Tuesday 7:00-10:10 PM at BUNG-7

Instructor : Stepan Zargaryan
Office Hours : T 4:00PM-4:15PM; Th7:00-8:20PM at Mat Lab

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E-mail : stzarg@charter.net

Text: Prealgebra
By Alan S. Tussy , R. David Gustafson 2nd ed.
Important Dates: Last day to drop classes, without a "W(no refund):
September 26, 2008;
Last day to drop a class with a " W" (in person)
November 23,2007

Course Outline:

Dates	Topics to be Covered/Events	Sections from Text
9/02	**1**. Whole Numbers	Chapter 1:
	Adding and Subtracting, Multiplying and Dividing	All 7 Sections
9/09	Estimation, Prime Factors and Exponent	
	Order of Operations, **Solving Equations by Addition and Subtraction, and by Division and Multiplication**	
9/16	**2.** The Integers	Chapter 2:
	Addition , Subtraction, Multiplication and Division of Integers. Order of Operations and Estimation .	All 7 Sections
	Solving Equations Involving Integers. **Test #1**.	
9/23	**3**. The Language of Algebra	Chapter 3:
	Variables and Algebraic Expressions. **Evaluating** Algebraic Expressions and the Distributive Property.	All 6 Sections
	Combining Like Terms	
	Simplifying Expressions to Solve Equations	
	Problem Solving**. Test # 2**	
9 /30	**4**. Fractions and Mixed Numbers	Chapter 4
	The Fundamental Property of Fractions	All 8 Sections
	Multiplying Fractions	
	Diving Fractions	
	Adding and Subtracting Fractions	
10/07	The LCM and the GCF	
	Multiplying and Dividing Mixed Numbers	
	Adding and Subtracting Mixed Numbers	
	Order of Operations and **Complex Fractions**	
	Solving Equations Containing Fractions.**Test #3**.	

10/14	**5. Decimals**	Chapter 5
	An Introduction to Decimals	All 7 Sections
	Addition and Subtraction with Decimals	
	Multiplication with Decimals	
	Division with Decimals	
	Estimation	
	Fractions and Decimals	
	Solving Equations Containing Decimals	
	Square Roots. **Test # 4**	
10/21	**6. Graphing Exponents and Polynomials**	Chapter 6
	The Rectangular Coordinate System	All 6 Sections
	Graphing Linerar Equations	
	Multiplication Rules for Exponents	
	Introduction to Polynomials	
	Adding and Subtraction Polynomials	
	Multiplying Polynomials **Test #5.**	
10/28	**7. Percent**	Chapter 7
	Percents, Decimals, and Fractions	All 4 Sections
	Solving Percent Problems	
11/04	Applications of Percent	
	Estimation	
	Interest	
11/11	**8. Ratio, Proportion, and Measurement**	
	Ratio	
	Proportions	
11/18	**American Units of Measurement**	
	Converting between American and Metric **Units.Test#6.**	
11/25	**9. Introduction to Geometry**	Chapter 9
12/02	Some Basic Definitions	All 7 Sections
	Parallel and Perpendicular Lines	
	Polygons	
	Properties of Triangles	
	Perimeters and Areas of Polygons	
	Surface Area and Volume.	
12/09	**Review**.	

12/16/2008 Final Exam 8:00p.m.-10p.m.

Note: Topics in bold face are considered extremely important to to the curriculum and should be emphasized accordingly.

Tests: The tests are generally closed book, and require students to demonstrate problem solving skills by showing work for the problems**. No Test Make-ups.**

Grading Policy a) Homework 10%, b) Tests 60%, d) Final test 30 %. **A: 89-100%, B: 79-88%; C 66-78% ; D: 55-65%; f –bellow 55.**

Specific Department Guidelines for Math 112:

It is expected that the students have an introduction to calculators at some point after Chapter 4. However, on all exams and work pertaining to Chapters 1-4 , students must demonstrate their ability to perform fundamental calculations without the calculator.
Additional support material for this course includes : software based tutorials, topic specific video presentations, and tutoring, available at the Mathematics Lab in the Library.

For questions regarding the support material or any of the guidelines presented here, please contact: Leslie Foster (818)364-7703; email : fosterll@laccd.edu

Math112
Learning Outcomes

1) Find the prime factorization of a given number.
2) Evaluate expressions using order of operations.
3) Simplify expressions with exponents.
4) Solve equations with whole numbers and integers.
5) Combine like-terms.
6) Analyze word problem, translate into linear equations and solve.
7) Evaluate expressions with fractions and mixed numbers, including order of operations and complex fractions.
8) Evaluate expressions with decimals and square roots.
9) Analyze and graph linear equations.
10) Convert numbers to percents and evaluate applications such as discounts, interests, commissions,etc.
11) Solve ratios and proportions, translate and solve word problems thereof.
12) Calculate perimeters and areas of polygons.
13) Distinguish between complementary angles as well as acute, right , obtuse, and straight angles.