Class Syllabus
SPRING 2008
L.A. MISSION COLLEGE

Math 115  (5 units) prerequisite Math 112 with a grade of C or better
Section 3315  BUNG 1   MW  4:20- 6:50 PM    Instructor:  Prof. Alice C. Constantino
Tel 818 687 3552    Campus 818 364 4255

Office hours: 8:30-9:30 pm Monday Inst. Building R 1011( Math Dept) Or by Appointment.
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General Objectives: This course will provide a solid foundation of the basic concepts of Elementary
Algebra that are presented in a simple, concise and clear manner.  Concepts are presented through board
demonstration, solve variety of word problems applicable to real life situation in every chapter and
reinforced the lessons learned through Mathematics software provided by the textbook company and
homework.
At the end of the course college students will be able to develop a logical sequence of understanding in
solving algebraic concepts to prepare them to meet the challenges for the next Mathematics course level.

Methodologies: Board Demonstrations; question and answer; group session; practice reinforcement; and
homework follow-up.
ADDITIONAL SUPPORT: BCA TUTORIAL, INTERACTIVE VIDEO SKILL BUILDER CD-ROM,
TEXT-SPECIFIC VIDEOTAPE SERIES, AND TUTORIAL AVAILABLE AT THE MATHEMATICS
LAB IN THE LIBRARY.
Textbook:  ELEMENTARY ALGEBRA 8TH EDITION BY:
               JEROME E. KAUFMAN AND KAREN L. SCHWITTERS

Course Outline:
  ½ week  Chapter 1:  Some Basic Concepts of Arithmetic and Algebra
                                                      1., 1.2, 1.3, 1.4, 1.5
  1 week  Chapter 2:  Real Numbers  and Algebraic Expressions
                          2.2, 2.2, 2.3, 2.4, 2.5
                                  Chapter test
  1½ week  Chapter 3:  First Degree Equations, Inequalities and Word Problems
                                  3.1, 3.2, 3.3, 3.4, 3.5
  1 week  Chapter 4:  Ratio and Proportion, Percent, Formulas and Problem Solving
                                 4.1, 4.2, 4.3, 4.4, .4.5
                                     Chapter Test
  1½ week  Chapter 5:  Exponents ( Zero and Negative Exponents ) and Polynomials
                                5.1, 5.2, 5.3, 5.4, 5.5, 5.6
  1½ week  Chapter 6:  Factoring and Solving Equations
                                6.1, 6.2, 6.3, 6.4, 6.5,
                                              Chapter test
  1½ week  Chapter 7:  Operations with Rational Expressions , Complex Fractions and Word Problems
                                7.1, 7.2, 7.3, 7.4, 7.5, 7.6
  2 weeks  Chapter 8:  Coordinate Geometry, Slope, Equation of the Line; and Solving Systems of
                        Linear Equations and Word Problems.
                                       8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7
                                              Chapter Test
  1½ weeks Chapter 9:  Roots and Radicals; Operations involving radicals; Solving Radicals Equations and
                           Word Problems.
                                          Chapter Test
  11/2weeks Chapter 10:  Solving Quadratic Equations by Completing the Squares and Formula; Word
                           Problems
                                      10.1, 10.2, 10.3, 10.4, 10.5
                                              Chapter Test
  1week    Chapter 11: Functions and Relations
LEARNING OUTCOMES

1. Categorize numbers
2. Manipulate numbers using basic numerical operations.
3. Evaluate arithmetic expressions containing exponents.
4. Solve first degree equations and inequalities.
5. Solve formulas for a given variable.
6. Recognize and solve proportion problems; analyze and solve word problems.
7. Simplify, add, subtract, multiply and divide polynomials.
8. Simplify expressions containing negative exponents.
9. Factor polynomials using appropriate methods.
10. Apply factoring techniques to solve second-degree equations.
11. Factoring polynomials using a variety of techniques.
12. Solve equations and word problem using factoring.
14. Solve equations and word problems using factoring.
15. Graph equations in two variables.
16. Determine equations of lines.
17. Solve systems of equations
18. Determine roots; simplify, add, subtract, multiply and divide radicals.
19. Solve equations containing radicals.
20. Solve quadratic equations using completing the square and the quadratic formula
21. Define and evaluate relations and functions.

COMMON FINAL TESTS: ALL MATH 115 STUDENTS ARE REQUIRED TO PASS A COMPREHENSIVE DEPARTMENT FINAL TEST. FAILURE TO TAKE THIS EXAMINATION AT THE SCHEDULE TIME WILL RESULT IN A SCORE OF ZERO.

Grading System:
1. Average Chapter Test/ Quizzes 55% (deduct 1 lowest score)
2. Graded Homework/ Attendance 10%
3. Final Test 35% Common Final May 31, 2008 10:15-12:15 pm

Homework:
Homework is given to reinforce the lessons for the day and to develop the necessary skills in Math. Students are expected to do assigned numbers and correct the problems in class before introducing the lesson for the day.

Test Scores:
There will be no make up’s for missed test. Missed test is equivalent to zero score. Please keep records of all test scores for your reference in grade computations.

Attendance:
Attendance will be strictly monitored. Please refer to the college manual regarding absences policy.

Friendly Reminder:
If you plan to drop the subject it, is your responsibility to apply for a withdrawal of the course in the admission office. Otherwise a letter grade of “F” will be reflected in your record, if your name is still in the final class list. Please refer to the college calendar for deadline.

Pagers and Cell Phone must be in silent mode during class hours. Sleeping and loud conversation is strictly prohibited as well as habitual tardiness. Dismissal on time is strictly observed.

Please feel free to see me for any help.