Los Angeles Mission College

Syllabus for Math 115
Fall' 2008

Course: Elementary Algebra 5 Units
Ticket Number 3318

Meeting: TTh 4:20PM - 6:50PM
Instructor: Stepan Zargaryan
Office Hours: T 4:00p.m.-4:15p.m.
Th 7:00 PM – 8:20 PM

Voice Mail: Tel: (818) 364-7600, ext.4257
Email: stzarg@charter.net

Text Elementary Algebra
8th edition by J.E. Kaufmann & Schwitters
Printed by Thomson, Brooks/Cole

Final Exam All Math 115 students are required to pass
a comprehensive Departmental Final. This
Examination is be held in the Bungalows, Saturday
December 13, 2008 from 10:15 a.m. to 12:15 p.m. Failure
to take this Examination will result in a score of zero.

Course Outline:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topics to be Covered/ Events</th>
<th>Sections</th>
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</thead>
<tbody>
<tr>
<td>09/02/08</td>
<td>Numerical and Algebraic Expressions; Prime and Composite Numbers Integers: Addition and Subtraction, Multiplication and Division. Use of Properties.</td>
<td>Chapter 1: All 5 Sections</td>
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<tr>
<td>09/04</td>
<td>Rational Numbers: Multiplication and Division, Addition and Subtraction</td>
<td>Chapter 2: All 5 Sections</td>
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<tr>
<td>09/09</td>
<td>Real Numbers and Algebraic Expressions Exponents. Translating from English to Algebra.</td>
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<tr>
<td></td>
<td>Exams #1</td>
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<tr>
<td>09/11</td>
<td>Solving First-Degree Equations</td>
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<tr>
<td>09/16</td>
<td>Equations and Problem Solving</td>
<td></td>
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<tr>
<td>09/18</td>
<td>Equations Involving Parentheses and Fractional Forms</td>
<td>Chapter 3: All 6 Sections</td>
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<tr>
<td></td>
<td>Inequalities. Compound Inequalities and Problem Solving</td>
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<td>Exams #2</td>
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<tr>
<td>09/23</td>
<td>Ratio and Proportion; Percent</td>
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<td>09/25</td>
<td>More on Percents and Problem Solving</td>
<td>Chapter 4:</td>
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<tr>
<td>09/30</td>
<td>Formulas; Problem Solving</td>
<td>All Sections</td>
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<td></td>
<td>Addition and Subtraction of Polynomials;</td>
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<td>10/02,07</td>
<td>Multiplying Monomials</td>
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<td>Multiplying Polynomials</td>
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<td></td>
<td>Dividing by Monomials, Binomials</td>
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Zero and Negative Integers as Exponents.

Exam #4.

10/09

10/14 Factoring: by Using the Distributive Property, Using the Difference of Two Squares. Chapter 6

10/16 Factoring Trinomials All 5 Section

10/21 Solving Quadratic Equations by factoring; Problem Solving. Exam #5

10/23,28 Operations with Rational Expressions and Chapter 7;

10/30 Complex Fractions; Solving Rational All 6 Sections

Equations; Applications.

11/04 Graphing Linear Equations and Chapter 8

11/06 Inequalities; Slope of a Line;

Determining the All 7 Sections

Equation

of a Line; Solving System of Linear Equations

by Graphing, by Addition Method, and by

Substitution Method; Applications.

11/11 Veterans Day (College is closed)

11/13,18,20 Exam # 6. Roots and Radicals Chapter 9

11/20,25 Operations with Radicals; Products & All 5 Sections

11/27 Thanksgivings Holidays

12/02 Radical Equations.

12/04 Solving Quadratic Equations by Square Root, by Completing the Square, and by

Chapter 10. All 5 Sections


12/09 Relations and Functions 11.7

12/11 Review

12/13 Final Exam

Note: 1. Topics in bold face are considered extremely important.

2. All exams will be closed notes and closed book.

Grading Policy

a) Final exam : 30%

b) Exams: 60%

d) Home Work: 10%

Math115-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; solve words problems

7) Simplify, add, subtract, multiply and divide polynomials

8) Simplify expressions containing negative exponent.
9) Factor polynomials using appropriate methods
10) Apply factoring techniques to solve second-degree

11) Factoring polynomials using a variety of techniques
12) Solve equations and word problems using factoring
13) Manipulate and simplify algebraic fractions using basic operations
14) Solve equations containing algebraic fractions
15) Graph equations in two variables
16) Determine equation of line
17) Solve system 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.

END