Los Angeles Mission College

Syllabus for Math 125
Fall' 2012

Course: **Intermediate Algebra 5 Units**
Ticket Number 3235

Meeting: **TTh 4:10PM -6:50PM at 023 CMS**

Instructor : Stepan Zargaryan
Office Hours : **TTh 7:00 PM – 7:30 PM at Math Tutoring Center CMS**

.
Voice Mail: Tel: (818) 364-7600, ext.4257
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Text **Intermediate Algebra**
9th edition by J.E. Kaufmann & K. Schwitters
Brooks/Cole

Drop classes without receiving a "W" - **September 7**

Drop classes with a " W " - **November 16**

Course Outline

Dates	**Topics to be Covered**	**Chapters & Sections**
8/28/12	Sets;Real Numbers;Exponents; Algebraic Expressions	Chap. 1 : All 4 Sections
8/30/12	First-Degree Equations; Formulas;First –Degree	Chap. 2 :
9/04/12	Inequalities; Applications; **Absolute Value**	All 7 Sections
9//06/12	**Equations and Inequalities. <u>Exam #1</u>**	
9/11/12	Polynomials**:** Sum, Difference, Product; Factoring:	Chap. 3 :
9/13/12	GCF, by grouping, Trinomials, Difference of Two Squares, Sum & Difference of Two Cubes, Equations	All 7 sections
9/18/27	Operations on Rational expressions; Complex	

Chap.4 :
9/20/ Fractions; Division of Polynomials; **Rational** All 7 sections
9/25 **Equations**; Applications . **<u>Exam #2</u>**

9/27 Exponents and Roots: multiply , divide, add &
Chap. 5:
10/ 02,04/12 subtract; Rationalize Denominator; Equations; All 7 sections
Exponents & Roots; Scientific Notation

10//9,11/12 Complex Numbers, **Solving Quadratic Equations** Chap. 6
Page 2.

Using Completing the Square, Quadratic Formula: All 6 sections
Equations Reducible to Quadratic Equations;

10/16/12 Applications; Nonlinear Inequalities. **<u>Exam #3</u>**

10/18,23 /12 **Graphing Linear Equations** and Equations in two
Chap.7
variables; Distance and Slope; **Determining the** Aii 5 sections
Equation of a Line

10/ 25/12 **Conics:** Parabolas, Circles, Ellipses, Hyperbolas
Chap.8
<u>Exam #4</u> All 4 sections
Relations and **Functions** ; Graphs & Applications;
Chap. 9
10/30 **Graphing via Transformations**; **Composite** All 6 sections
11/01/,06/12 **Functions;**Inverse Functions; Variation

11/08,13 System of Equations; Matrix Approach;

Chap.10
Nonlinear Systems . **Exam $5** All 8 sections

11/15,20/12 Exponential Functions; Logarithmic Functions; Chap. 11
Properties and Equations; Common and Natural All 5 sections
Logs; Applications . **Exam #6**

11/22-25/12 Thanksgiving

11/29/12 Repeating Exponential and Logarithmic Functions Chap.11

12/04/08/12 Review

12/11/12 Final Exam

Support Materials or Services:

Additional support material for this course includes: PowerLecture with ExamView CD-ROM. This CD includes *Power Point Lectures*, *Solution Builder* (A convenient and expedient way to deliver solutions to specific homework sets), *ExamView* (customizable tests both print and online).

Free tutoring is available at the Math Center located in the basement of the Campus Center. Calculators and textbooks can be checked-out from the Math Center.

Online homework may be created and assigned using a WebAssign account by going to *http://webassign.net*, then clicking on "Faculty sign up" and following the instructions. Online homework selections from Enhanced WebAssign are a lot less than the homework selections from the textbook. If a new textbook is purchased from the bookstore, a student access code is bundled with the textbook.

Student Learning Outcomes (SLO's):

1. Solve, graph , and analyze various equations and inequalities.

2. Interpret, graph and analyze various functions.

Grading Policy:

a) Final exam : 30% **b) Exams: 60%**
d) Home Work: 10%

E N D