## MATH 112 CLASS SYLLABUS FALL 2012

Course: Pre-Algebra

Section 0322

Mondays & Wednesdays 7:30-8:55am

**CSB 206** 

**Instructor:** C. Reyes

Office Hours: Fridays 8:30 – 10:00 am at adjunct cubicles in INST bldg offices

(enter through the north atrium) or by appointment

Voice mail (818) 364-7600 x 4236 (repeat your number twice, clearly and slowly)

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**Text:** *PreAlgebra*, by Elayn Martin-Gay, Sixth Edition

**Important Dates** 

September 3: Labor Day

September 7: Last day for a refund/add/drop

September 9: Last day to drop without a "W" online

November 12: Veteran's Day Holiday

November 16: Last day to drop with a "W" (online Nov. 18)

December 10: Final Exam 7:30-9:30am

#### **Course Outline**

This course provides an introduction to algebra. Topics include a review of arithmetic and an introduction to fundamental algebraic concepts. The emphasis will include the following topics: Order of operations; solving equations; variables; complex fractions; square roots; graphing linear equations and parabolas; operations with polynomials; and an introduction to geometry. In most part, Chapters 1-9 will be covered from the text. Some sections will be omitted. These omitted sections will be announced during the course.

Significant changes to the drop policy and class repetition are now effective. **Last day to drop without a W:** In the past this was the census date, about the 3<sup>rd</sup> week of classes. It is now the same day as the last day to add, September 7 (in person), September 9 (online).

**Class repetition:** Students are limited to three attempts at passing a course with a "C" or better. Any letter grade or "W" counts as an attempt. And this rule is retroactive. This means for example that if a student got a "W" and a "D" in Math 115 two years ago, he has one more chance to pass before he is prevented from enrolling in Math 115.

#### **Calculators:**

Calculators will not be allowed on exams. Some homework problems in Ch6-10 might require the use of a calculator.

## **Description:**

This course will prepare you for Elementary Algebra. It is a review of arithmetic and an introduction to basic algebraic concepts. Topics include operations on the set of integers, fractions and decimals; algebraic expressions, solving equations, word problems involving integers, fractions and decimals; ratios, proportions and percents; and an introduction to geometry.

#### **Tutoring:**

If you have questions and cannot make it to office hours, or you just like to get more help, free tutoring is available at the Math Center.

## **Student Learning Outcomes:**

By the end of the course, the successful student will be able to:

- 1. Perform operations and simplify numerical and algebraic expression involving integer and rational numbers.
- 2. Write linear equations for word problems and solve.

#### Homework and Exams

Homework (10 points per chapter) will be collected on test day. In addition, reviews (5 points each) will be assigned and also collected on test day. It is important that you complete homework assignments on time to be successful on exams. There will be five exams (worth 100 points each) from which the best four will be averaged into your grade. Because of this, **no make-up exams** will be given. (No exceptions.) They are all free response, and they cover two chapters each. Students are not allowed to use notes during exams. The tentative testing schedule is given in the timeline. No calculators will be allowed on any exams. In addition, there will a final exam (170 points) which will be cumulative covering the material presented throughout the course.

### **Class Expectations**

Students are expected to follow the "Standards of Student Conduct" and "Student Academic Integrity Policy Statement" for Mission College. Please arrive on time and be present throughout the entire class. Students are to wait until the break to leave the room to minimize class disruptions. Students must turn off pagers and cell phones during class time. Please do not bring walkmans, ipods, or any other electronic gadgets to class. Students should also be prepared to discuss any previous assignments. It is the student's responsibility to drop the class if he/she no longer decides to attend class. Any student appearing on the grade roster will receive a grade regardless of whether they are attending classes or not.

Any form of academic dishonesty will not be tolerated. If caught, you may be given a zero for that particular exam or quiz. The event will be reported to the Math Department Chair who will forward the report to the VP of student services for disciplinary action which may include suspension or expulsion.

To be successful in this and any other math class, expect to spend <u>at least</u> two hours for every class hour. The majority of learning that you do in college courses takes place outside of class

#### **Grading**

Your final grade will be calculated as follows:

<u>Total points received</u> = % grade Total points possible (670)

The breakdown is as follows:

The following grading scale will be used

Exams 60%
A 90-100%
B 80-89%
C 70-79%
C 60-69%

Exams 60%
Homework: 10%
C Ilosswork: 5%

D 60-69% F 0-59%

For borderline cases attendance, participation, and level of improvement on the final are considered. Students with a verified disability who may need authorized accommodation(s) for this class are encouraged to notify the instructor and the Office of Special Services or

Disabled Students as soon as possible, at least two weeks before any exam or quiz. All information will remain confidential.

Here are some websites that might be useful:

#### www.math.com

This has a lot of useful information including links to other math resources. Near the bottom of the home page there is a list of hot topics. Click on these links to get further instruction on the topics.

#### www.mathtv.com

This site has video clips of various teachers providing instruction on a vast array of math areas. There are also video clips available in Spanish. Web savvy students should have no trouble navigating the site.

## www.onlinemathlearning.com

This site has written descriptions of math concepts with examples provided to illustrate the concept. Some math areas have video instruction included, while others do not.

## www.youtube.com

If you search on a specific math topic on You Tube, you may find some video instruction associated with the topic. For example, search for "Adding Fractions" will result in various video mini lessons.

www.Khanacademy.org and http://yaymath.org recommended by students

# **OUTLINE MW(tentative)**

Week 1	08/27/12 Introduction, Lecture Chapter 1	<b>08/29/12</b> Lecture Chapter 1 & 2
Week 2	09/3/12 labor DAy	09/5/12 Lecture Chapter 2
Week 3	<b>09/10/12</b> Review Chapter 1 & 2	09/12/12 Test Chapter 1 & 2
Week 4	<b>09/17/12</b> Lecture Chapter 3	<b>09/19/12</b> Lecture Chapter 3
Week 5	<b>09/24/12</b> Lecture Chapter 4	<b>09/26/12</b> Lecture Chapter 4
Week 6	<b>10/1/12</b> Review Chapter 3 & 4	10/3/12 Test Chapter 3 & 4
Week 7	10/8/12 Lecture Chapter 5	<b>10/10/12</b> Lecture Chapter 5 & 6 (skipping 5.7)
Week 8	10/15/12 Lecture Chapter 6	<b>10/17/12</b> Review Chapter 5 & 6
Week 9	<b>10/22/12</b> Review Chapter 5 & 6	10/24/12 Test Chapter 5&6
Week 10	<b>10/29/12</b> Lecture Chapter 7	<b>10/31/12</b> Lecture Chapter 7 & 8

Week11	11/5/12 Lecture Chapter 8 (skipping 8.5)	11/7/12 Review Chapter 7 & 8
Week12	11/12/12 VETERAN'S DAY	11/14/12 Test Chapter 7 & 8
Week 13	11/19/12 Lecture Chapter 9	11/21/12 Lecture Chapter 9 & 10 (Skipping 9.7)
Week 14	11/26/12 Lecture Chapter 10 (skipping 10.4)	11/28/12 Review Chapter 9 & 10 (assign review for final)
Week 15	12/3/12 Test Chapter 9 & 10	12/5/12 REVIEW FOR FINAL EXAM
Week 16	12/10/12 FINAL EXAM (7:30-9:30AM)	12/12/12 NO CLASS

## **Homework Schedule**

Homework Schedule		
<u>Section</u>	<u>Assignments</u>	
ch1	summary on brainology article (see below)	
	p87 #1-29odd, 31-47all, 49-65odd,67-87odd, 89-	
ch1	130all	
ch1	p93 #1-34all	
ch2	p150 #1-114all	
ch2	p154 #1-35all	
ch3	p198 #1-72all	
ch3	p202 #1-21all	
ch4	p312 #1-105odd	
ch4	p318 #1-40 all	
ch5	p392 #1-84odd	
ch5	p398 #1-20all, 24-28all (not covering section 5.7)	
ch6	p451 #1-53odd	
ch6	p455 #1-25all	
ch7	p516 #1-63odd	
ch7	p519 #1-28all	
ch8	p580 #1-34all, 35-49odd	
ch8	p587 #1-30all (not covering section 8.5)	
ch9	p677 #1-93all	
ch9	p683 #1-31all, 34-37all (not covering section 9.7)	
ch10	p718 #1-34all	
ch10	p721 #1-17all (not covering section 10.4)	

## Brainology Assignment:

Go to my website: <a href="http://www.lamission.edu/~reyesch">http://www.lamission.edu/~reyesch</a> and open document:

BRAINOLOGY.PDF Read the entire article and write a summary limited to one page in length and two paragraphs. In paragraph one, summarize the article. For paragraph two, think about what type of mindset have you had in the past and what do think after reading this article?