Los Angeles Community College District  
Los Angeles Mission College  

**Syllabus Spring 2008**

**Course:** Math 245: College Algebra  
**Section:** 0371  
**Saturday 9:00am- 12:00pm, Room BUN1**

**Instructor:** Hai Phu Ngo  
**Office hours:** Saturday: 8:00am- 8:55 am  
**Office:** Instructional Center, Room 1011  
**Voicemail:**  
**Email:** hngo@elcamino.edu

**Required Text:** College Algebra, 11th edition  
Authors: Swokowski & Cole

**Important Dates:**  
Mar. 03/2008: Last day to drop without a “W”.  
May 05/08: Last day to drop with “W”.  
Final Exam: Saturday 05/31/2008: 10:00am- 12:00pm

**Attendance:** It is important that you attend class. Regular attendance will be expected. You are expected to attend class punctually and are responsible for assigned course work. If you are have more than three absences, you may be dropped from your class on your fourth absence. However, it is not your instructor’s responsibility to drop you. **It is your responsibility to drop if you decide not to finish the course.** If you do not drop and I do not exclude you, your name will be appeared on the grade roster at the end of the semester and there will be no choice but to assign a F grade. **So be sure to drop officially if you do not intend to finish the course.**

**Zero Tolerance Cheating Policy – Mathematics:** Cheating in this class is defined as knowingly or unknowingly participating in the submission of unoriginal work for any assignment, quiz, test. If it is determined that a student has cheated in this class, the instructor is required to fill out an Academic Dishonesty Report Form, and submit it to the Chair of Mathematics department who will forward the report to the VP of student services for disciplinary action which may include suspension or expulsion. In addition to sending the report, the instructor may take the following actions:  
1) Assign a non-replaceable fail grade for the assignment, quiz, test even if doing so results in the impossibility of the student to pass the class.  
2) Deduct an amount of points, as specified in the syllabus, from the student’s overall total points for a Conduct Code Violation even if doing so results in the impossibility of the student to pass the class.  
3) Dismiss the student for the remainder of the class session and/or the next class section.
Math 1245 : Learning Outcomes

1. Model and solve equations and inequalities, including quadratics and complex numbers
2. Perform operations with complex numbers including exponentiation.
3. Perform operations with linear and quadratic functions, draw their graphs, and find their inverses.
4. Model, solve and graph linear and non-linear systems of equations and inequalities.
5. Model and solve systems of equations and inequalities (two variables and more)
6. Analyze and graph polynomial and rational functions
7. Perform operations with polynomial functions
8. Perform operations with exponential and logarithmic functions
9. Model, solve, and graph exponential and logarithmic functions
10. Identify and manipulate sequences and series.
11. Interpret summation notation and determine sums of sequences.
12. Decompose algebraic fractions into partial fractions.
13. Solve systems of equations using matrix theory.
14. Evaluate determinants and utilize their properties.
15. Analyze and graph conic sections: parabolas, ellipses, and hyperbolas.

Read the textbook: The textbook provides a reasonable level of mathematical rigor and many exercises are quite reveling. I strongly encourage you to read the text carefully. The lectures are designed as a supplement to and not an alternative for the textbook. Students are expected to master all topics in the textbook unless otherwise indicated and regardless of whether they are mentioned in the lecture.

Homework: I will assign homework everyday. It will not be collected or graded. Your quiz and test scores will indicate if you are doing the homework. You can ask any homework you can not solve at the next class meeting.

Tests: There will be 7 (seven) tests during the semester and one lowest test score will be dropped. No make up test for any reason. 100 points for each test.

Final: There will be a comprehensive final. This final is mandatory to pass this class. The final test score is 200 points.

Grading Scale: The following is the tentative grading scale base on the maximum score of 800 points:

Course Schedule

The following schedule should serve as a tool for preparing for each lecture, including dates for quiz, and tests. The instructor reserves the right to change the following schedule with prior notice.

02/09: Introduction. Chapter 1: 1.1 – 1.4 . Chapter 2: 2.1 & 2.2
02/16: Holiday. No Class.
02/23: Chapter 2: 2.3 – 2.7
03/01: Chapter 3: 3.1 – 3.3. Test # 1 (Ch 1 & 2)
03/08: Chapter 3: 3.4 – 3.7. Chapter 4: 4.1 & 4.2
03/15: Chapter 4: 4.3 – 4.5. Test # 2 (Ch 3)
03/22: Review Chapter 4. Test # 3 (Ch 4)
03/29: Spring Break. No Class
04/05: Chapter 5: 5.1 – 5.6
04/12: Chapter 6: 6.1 – 6.3. Test # 4 (Ch 5)
04/19: Chapter 6: 6.5 – 6.10
04/26: Review Chapter 6. Test # 5 (Ch 6)
05/03: Chapter 7: 7.1 – 7.5
05/10: Review Chapter 7. Test # 6 (Ch 7)
05/17: Chapter 8: 8.1 – 8.3.
05/24: Review Final. Test # 7 (Ch 8)
05/31: Final Exam. 10:00am – 12:00 pm

Homework Assignments: Only work on Odd numbers.
Ch 1: 1.2: # 11- 79; 1.3: # 1- 101; 1.4: # 1- 53
Ch 2: 2.1: # 9-43; 2.2: # 1-21; 2.3: # 1-43; 2.4: # 1-51; 2.5: # 1- 55
2.6: # 21- 69; 2.7: # 1- 33.
Ch 3: 3.1: # 9-19; 3.2: # 11- 55; 3.3: # 1- 35; 3.4: # 1-15, 21- 31
3.5: # 3- 35; 3.6: # 1- 21; 3.7: # 1- 35.
Ch 4: 4.1: # 5- 9; 33 – 37; 4.2 : # 1- 35; 4.3: # 1- 11; 4.4: # 1- 19; 4.5: # 7- 47
Ch 5: 5.1 : # 25- 43; 5.2: # 1- 9, 31- 37; 5.3: # 5- 23; 5.4 : # 1- 33
5.5: # 1- 33; 5.6: # 1- 41
Ch 6: 6.1: # 1- 29; 6.2: # 1- 25; 6.3: # 1- 31; 6.5: # 1- 21 ; 6.6: # 1- 25
6.7: # 1- 11; 6.8: # 9- 27; 6.9: # 33- 41; 6.10: # 1- 27
Ch 7: 7.1: # 1- 47; 7.2 : # 3- 43; 7.3: # 1-49; 7.4: # 1- 21; 7.5: # 1- 43
Ch8: 8.1: # 1- 27; 8.2: # 1- 27; 8.3: # 1- 41.