Palomar College
Mathematics Department

Math 50
Beginning Algebra
Class# : 31832
Monday & Wednesday & Friday 12:30 a.m. – 1:50 p.m.
Room NA-1
Spring 2007

Professor: Fari Towfiq
Phone: 744-1150, Ext. 2716
E-mail: ftowfiq@palomar.edu or fariheh@mailhost2.csusm.edu
Office: E11-M

Office Hours: Monday 9:30 a.m. – 10:00 a.m.
3:30 p.m. – 4:00 p.m.
Tuesday 11:00 a.m. – 12:00 noon
Wednesday 10:00 a.m. – 11:00 a.m.
Thursday 9:00 a.m. – 9:30 a.m.
11:00 a.m. – 12:00 noon
Friday 10:30 a.m. – 11:00 a.m.

Math Center: Monday 10:00 a.m. – 11:00 a.m.
4:00 p.m. – 5:00 p.m.
Tuesday 2:00 p.m. – 5:00 p.m.

Prerequisite: A minimum grade of “C” in Math 15 or a passing score on the appropriate Placement Test

Textbook: Introductory Algebra, 8th Ed.
By Lial, Hornsby, McGinnis

Note: The textbook is mandatory for the course. Two copies of the textbook are available for Students’ use at the Math Center. If for some compelling reason you cannot buy the book right away, you should use the textbook at the Math Center. Otherwise you will fall behind in the class.
**Course Description:**
Elementary algebra, which emphasizes mathematical reasoning, problem solving, and real world applications using numerical, algebraic, and graphical models. Topics include problem-solving techniques, algebraic expressions, polynomials, linear equations, linear inequalities, linear and nonlinear graphs, systems of linear equations in two variables, integer exponents, proportions, and radicals.

**Resources:**
1) Tutoring is available through the Mathematics Center (Room E2) and the Tutorial Center (the first floor of Library).
2) Student’s Solution Manual and Textbook are available for student use at the Mathematics Center.
3) Beginning algebra video tapes are available for student use at the Learning Resource Center, located on the second floor of the library.

**Expectations:**
- Attend class on a regular basis.
- Participate in class discussion and activities.
- Take notes during class.
- Ask questions in class.
- Spend at least 2 hours outside of class in preparation for each hour in class.
- Read the textbook.
- Complete all homework assignments.
- Make sure you understand how to solve homework problems.
- Work with your groups outside of class to prepare for presentations.
- Seek for help in a timely manner.
- Take all exams.

**Classroom Conduct:**
Class time is valuable.
Disruptive behavior such as talking, arriving late, leaving early, working on unrelated material, showing negative attitudes or facial expressions is not acceptable. Also, at all the times a student’s conduct and language is expected to be respectful to other students’ and the professor. If a student participate in any of these activities the student may be suspended or expelled from the class for the day or the semester.

**Grading Procedures:**
The course grade will be based on the following.

<table>
<thead>
<tr>
<th>Test</th>
<th>Chapter</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>1, 2</td>
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<td>Test 2</td>
<td>3, 4</td>
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<td>Test 3</td>
<td>5, 6</td>
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<td>Test 4</td>
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<td>Assignments</td>
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<td>Class Participation/Presentation</td>
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<td><strong>Total</strong></td>
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See attached schedule for material covered.
**Calculator:** You need to have a scientific calculator.

**Skills:** Problem Solving, Transfer of Knowledge and Skills to a New Context, Teamwork, and Speaking.

**Make-up Test Policy:**
Make-up test is given on emergency bases.
If for some compelling reason you cannot take a test on the test day, you need to make an arrangement with me in advance.
If you do not take a test, you will receive a grade of “0” zero for that test.
**Note:** Your lowest test score will not be dropped.

**Academic Integrity:**
If a student is found cheating on an exam, he/she will receive a grade of “F” for that exam. If the student cheats for a second time, he/she will be dropped from the course and will receive a grade of “F” for the course.

**Cell Phones / pagers:**
Please turn off all cell phones and pagers before coming into class.

**Drop Policy:**
Students may be dropped for excessive absences or failure to take examinations.

**Drop Dates:**
January 16 – February 14 without “W”
February 15 – March 10 with “W”

**Credit/No Credit:**
Deadline to choose CR/NC is February 15.

**Final Exam:**
Wednesday, May 16 from 12:00 a.m. to 1:50 a.m.
The final examination is comprehensive. Also, It is mandatory for all students in this class.
The Real Number System
Chapter 1, pages 23 – 105
Assignments: Section 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8 (Every other odd numbered problems)
Chapter 1 Review Exercises (Every odd numbered problems)
Chapter 1 Test (Every odd numbered problems)

Equations, Inequalities, and Applications
Chapter 2, pages 107 – 189
Assignments: Section 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7 (Every other odd numbered problems)
Chapter 2 Review Exercises (Every odd numbered problems)
Chapter 2 Test (Every odd numbered problems)

Graphs of Linear Equations and Inequalities in Two Variables
Chapter 3, pages 193 – 267
Assignments: Section 3.1, 3.2, 3.3, 3.4, 3.5 (Every other odd numbered problems)
Chapter 3 Review Exercises (Every odd numbered problems)
Chapter 3 Test (Every odd numbered problems)

Systems of Linear Equations and Inequalities
Chapter 4, pages 273 – 327
Assignments: Section 4.1, 4.2, 4.3, 4.4, 4.5 (Every other odd numbered problems)
Chapter 4 Review Exercises (Every odd numbered problems)
Chapter 4 Test (Every odd numbered problems)

Exponents and Polynomials
Chapter 5, pages 331 – 399
Assignments: Section 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.8 (Every other odd numbered problems)
Chapter 5 Review Exercises (Every odd numbered problems)
Chapter 5 Test (Every odd numbered problems)

Factoring and Applications
Chapter 6, pages 403 – 467
Assignments: Section 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7 (Every other odd numbered problems)
Chapter 6 Review Exercises (Every odd numbered problems)
Chapter 6 Test (Every odd numbered problems)

Rational Expressions and Applications
Chapter 7, pages 471 – 555
Assignments: Section 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7 (Every other odd numbered problems)
Chapter 7 Review Exercises (Every odd numbered problems)
Chapter 7 Test (Every odd numbered problems)

Roots and Radicals
Chapter 8, pages 559 – 625
Assignments: Section 8.1, 8.2, 8.3, 8.4, 8.5, 8.6 (Every other odd numbered problems)
Chapter 8 Review Exercises (Every odd numbered problems)
Chapter 8 Test (Every odd numbered problems)
# Lectures, Reviews, Tests, Assignments

## Schedule

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<tr>
<td>January 19</td>
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<td>January 22</td>
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<td>January 24</td>
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<td>January 26</td>
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<td>February 9</td>
<td>Sec. 2.7, 3.1</td>
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<td>February 12</td>
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<td><strong>February 14</strong></td>
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April 18     Sec. 7.2, 7.3
April 20     Sec. 7.3, 7.4
April 23     Sec. 7.5, 7.6
April 25     Sec. 7.6, 7.7
April 27     Sec. 8.1, 8.2
April 30     Sec. 8.2, 8.3
May 2        Sec. 8.4, 8.5
May 4        Sec. 8.5, 8.6
May 7        Review (Chapter 7 & 8)
May 9        Test # 4 (Chapter 7 & 8)
             Assignment # 4 (Chapter 7 & 8)
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May 11       Review for Final Exam
May 16       Final Exam, 12:00 noon – 1:50 p.m.