

West Los Angeles College

Department of Mathematics

Math 123B: Beginning & Intermediate Algebra- Spring 2015

Instructor: Carrie Huang

Section: 4482

Time: TuTh 7:15pm – 9:20pm

Room: MSA 009

Office: MSA 009

Office Hours: TuTh 9:20pm – 9:40pm

Email: huangcy@wla.edu or mancarrie2003@yahoo.com

Textbook: Beginning and Intermediate Algebra, Lial, Hornsby, McGinnis, 5th ed, Addison Wesley Pearson, 2012. REP NEGOTIATED DEAL FOR CUSTOM WLAC EDITION. New ISBN 1269047396 (The Bookstore has a WLAC Custom Edition which is substantially the same as the regular 5th ed (2012, ISBN-9780321715869).

Prerequisite: Mathematics 123A with a grade of 'C' or better or equivalent preparation approved by the Chair of the Mathematics Division.

Course Description: Second of three modules for Math 123 covering elementary algebra topics such as addition, subtraction, multiplication of polynomials, solution of second degree equations and radical expressions. Solution of word problems involving second degree equations and radical expressions.

Calculators: A scientific calculator will be allowed for homework, quizzes and exams. Use of a graphing or cell phone calculator will be considered cheating. You must have your own calculator for quizzes or exams—**no sharing** and **show all necessary computation**.

Website: <https://sites.google.com/site/carriehuang0703/wlac-math123b>
(Homework, solution of quizzes, exams will be posted here)

Student Learning Outcomes:

- Perform operations involving rational and radical expressions, real and complex numbers, and functions
- Use appropriate techniques to solve equations, including: linear and quadratic equations; equations involving radical or rational expressions or absolute value; and systems of linear equations.
- Solve and graph linear and compound inequalities in two variables.
- Graph and analyze linear functions
- Analyze, model, and solve “story” problems (applications) within the above scope.

Institutional Learning Outcomes:

- Critical Thinking: Analyze problems by differentiating fact from opinions, using evidence, and using sound reasoning to specify multiple solutions and their consequences.
- Quantitative Reasoning: Identify, analyze, and solve problems that are quantitative in nature
- Communication: Students will show and explain their work in a clear, well-organized manner
- Technical Competence: Utilize the appropriate technology effectively for informational, academic, personal, and professional needs

Math Program Outcomes:

- Apply quantitative thinking processes using basic mathematical operations (addition, subtraction, multiplication, division) to solve common academic, workplace, and family problems. (Theme: Quantitative thinking; mathematical operations)
- Use mathematical tools essential for analyzing quantitative problems and for producing solutions.
- Select appropriate math strategies for solving and handling real life problems.

Grading:

Homework	10%
Exams (4)	40%
Quizzes	20%
Comprehensive Final Exam	30%

Letter Grades: A 89-100%; B 78-88%; C 68-79%; D 60-67%; F below 60%

Final Date and Time: June 2 (Tuesday) 7:00pm – 9:00pm

Any student that does not take the final exam will fail the course directly. The final exam cannot be missed and **MUST** be taken at the time scheduled by college.

Attendance: The student is expected to attend every meeting of all classes for which he or she is registered. Whenever absences “in hours” exceed the number of hours the class meets per week, the instructor may exclude a student from class. ***If a student stops attending a class, it is the student’s responsibility to officially drop the class.*** Students missing class are responsible for finding out what they missed and what is due.

Homework: Homework assignments will be assigned on the website and it will be collected every **Thursday**. It will be graded based on completeness and neatness. Must be clearly marked with homework number, stapled, and done in pencil on regular paper. You are welcome to collaborate on homework assignments, but the work you hand in should be your own. If I suspect out you have copied an assignment, you will receive no point for that assignment. Late homework will be accepted for a maximum of 50% credit. Any late homework must be handed in before the exam on which material appears.

Quizzes: Quizzes will be given weekly in class. These problems will be related to the previous lecture. Lowest quiz will be dropped. **No in-class make-up quiz.**

Make-up Policy: Make-ups are generally discouraged, but will be considered on a case-by-case basis. No Make-up exam will be given unless notified to the instructor in advance for extraordinary circumstances with official document. In any event, arrangements for a make-up exam must be made before or within 3 days of the scheduled exam date.

Cheating:

Cheating constitutes academic dishonesty and, in general will be used as part of the course grading process. Penalty may range from no credit for the assignment up to and including exclusion and/or an “F” grade for the course.

Disability: Upon the timely request by the student to the instructor, West Los Angeles College is committed to providing educational accommodations for students with disabilities. Verification of the disability must also be provided. Disability Support services functions are a resource for students and faculty in the determination and provision of the accommodations.

CLASS POLICIES

Food and Drink: Food or drink is prohibited in the classroom with the exception of water bottles, which are permitted as long as they remain closed when not in active use, and are kept away from all equipment.

Behavior: You should be alert and prepared to participate when in class. Please no sleeping, text/talking on phones, reading unrelated material, chatting with classmates about unrelated subject matter, surfing internet on phones, laptops or tablets, or listening to MP3 players while in class. Please always be respectful and refrain from disruptive behavior in class! Turn off or silence your cell phones.

How to Become Successful in Math 123B Class:

1. Attend every class session and be on time
2. Be an active participant in the classroom activities
3. Preview new material
4. Do the homework on a regular basis
5. Make friends in class
6. Ask for assistance (classmate, instructor, tutoring center)
7. Believe in your ability to succeed
8. Be neat, accurate and well organized
9. Persevere
10. Prepare for the tests and the final exam

Note: Syllabus is subject to change at the discretion of the instructor.

Week	Tuesday	Thursday
1	2/10 - Introduction, 5.1, 5.2	2/12 - 5.2, 5.3
2	2/17 - 5.4, 5.5	2/19 - 5.6, Quiz#1, (5.1 – 5.3)
3	2/24 - 6.1, 6.2	2/26 - 6.3, Quiz#2 (5.4 – 5.6)
4	3/3 - 6.4, Review for Exam#1	3/5 - Exam#1 (Chapter 5 & 6.1, 6.2)
5	3/10 - 6.5, 6.6	3/12 - 6.7, 7.1
6	3/17 - 7.2, 7.3	3/19 - 7.4 Quiz#3 (6.3 – 6.6)
7	3/24 - 7.5, 7.6	3/26 - 8.1, Quiz#4 (6.7 – 7.3)
8	3/31 - Review for Exam#2	4/2 -Exam#2 (Chapter 6.3 – 6.7 & 7.1 – 7.3)
9	4/14 - 8.2, 8.3	4/16 - AppA, 8.4
10	4/21 - 8.5, 8.6	4/23 - Review , Quiz#5 (8.1 – 8.3)
11	4/28 - Review for Exam# 3	4/30 - Exam#3 (Chapter 7.4 – 7.6 & 8)
12	5/5 - 9.1, 9.2	5/7 - 9.3, 10.1
13	5/12 - 10.2, 10.3	5/14 - Review, Quiz# 6 (Chapter 3)
14	5/19 -10.4, 10.5	5/21 - 10.6, 10.7
15	5/26 - Exam#4(Chapter 9 & 10)	5/28 - Final Review
16	6/2 - Final 7:00pm – 9:00pm	

Important Dates:

February 16th-Washington's Day Holiday
 April 6 - 12 Spring break

- Last day to DROP for a refund, February 20, 2015
- Last day to DROP without notification on record, February 20, 2015
- Last day to DROP with a “W,” May 8, 20115

Homework assignments:

Chapter 5 Review

Page 350 5.1 --- 1 - 4(ALL) plus page 302 --- 41, 51, 54, 74, 83
 Page 350 5.2 ---- 5 - 16 (ALL)
 Page 350 5.3 ---- 19 - 27(ALL)
 Page 350 5.4 ---- 31 - 42 (ALL)
 Page 350 5.5 ---- 43 - 55 (ODD)
 Page 350 5.6 ---- 57, 59. Page 353 - 25, 26, Page 355 -- 28
 Page 364 6.1 ---- 31, 35, 41-55, 61-73, 85, 91
 Page 371 6.2 ---- 5 - 9, 19 -23, 27 - 35, 43, 45
 Page 376 6.3 ---- 15, 23, 25-39
 Page 384 6.4 ---- 15, 20, 29 - 41, 53, 63
 Page 393 6.5 ---- 9 - 31
 Page 402 6.6 ---- 19 - 31, 35, 37, 49, 53, 69, 89
 Page 411 6.7 ---- 3, 7, 19, 27, 33
 Page 439 7.1 ---- 5, 11, 15, 17, 23, 29, 32, 47, 69, 77, 95, 99
 Page 451 7.2 ---- 17, 27, 35, 41, 45, 47, 55, 69, 71
 Page 462 7.3 ---- 11. 21, 23,29, 31, 35, 49

Spring Break 4 /6/2015 - 4/12/2015

Page 469 7.4 ---- 7 - 13, 23, 31, 37, 41, 45
 Page 478 7.5 ---- 5, 11, 13 - 25, 31, 35, 39, 41, 51, 59, 67, 75
 Page 486 7.6 ---- 27-35
 Page 507 8.1 ---- 5, 15, 17, 25, 27
 Page 516 8.2 ---- 5-17, 25, 27
 Page 522 8.3 ---- 3 - 9, 15 - 27
 Page 531 8.4 ---- 3 -9, 19-23, 31, 37
 Page 541 8.5 ---- 3, 7, 17, 23, 27
 Page 552 8.6 ---- 7 - 17, 19, 23
 Page 571 9.1 ---- 7, 19 - 29, 35-41, 47, 51
 Page 580 9.2 ---- 7-19, 49-59, 71, 73, 79
 Page 590 9.3 ---- 13 - 27, 33-39
 Page 609 10.1 --- 67 - 96, 99, 103, 107-115
 Page 617 10.2 --- 11 - 35, 45-49, 61-77, 87, 91-97, 99
 Page 626 10.3 --- 9-17, 21-49, 63-73
 Page 632 10.4 --- 1 - 31, 39 - 51