

West Los Angeles College

Department of Mathematics

Math 123A: Beginning & Intermediate Algebra- Winter 2015

Instructor: Carrie Huang

Section: 1476

Time: MTuWThF 8:00 am -10:35 am

Room: MSA 202

Office: MSB 202

Office Hours: TuTh 10:40 -11:40

Email: huangcy@wlaac.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**

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.**

Prerequisite: Mathematics 110 or 112 with a grade of 'C' or better or appropriate placement level demonstrated through math assessment process.

Course Description: First of three modules for Math 123 covering elementary algebra topics such as properties and operations with real numbers, addition, subtraction, multiplication of algebraic expressions, solution of linear equations and inequalities. Solution of word problems involving linear equations and inequalities.

Website: <https://sites.google.com/site/carriehuang0703/wlac-math-123a>
(Homework, solution of quizzes, exams will be posted here)

Student Learning Outcomes:

- Construct, analyze, and interpret graphs of linear equations in two variables in theoretical and applied contexts.
- Analyze an application, determine the data and formula(s) required for solving the given application, write an equation(s), solve the equation(s), and write a statement of conclusion that summarizes the results using units of measure.
- Solve linear and quadratic equations in one variable, and solve equations containing algebraic fractions or square roots in one variable

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)
- Analyze and interpret spatial and graphic data (schedules, maps, and tables, graphs) to plan and organize daily routines. (Theme: spatial and graphic data).
- Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: mathematical tools)
- Apply advanced mathematical concepts and tools (algebra, calculus) essential in upper division academic work and/or workplace tasks. (Theme: advanced mathematical operations—algebra, calculus)
- Select appropriate math strategies for solving and handling real life problems involving finance, economics, and family issues. (Theme: mathematical problem-solving)

Grading:

Homework	10%
Exams (5)	40%
Quizzes (3)	20%
Comprehensive Final Exam	30%

Letter Grades: A 88-100%; B 78-87%; C 65-77%; D 60-64%; F below 60%

Final Date and Time: February 6, 2015 (Friday) 8: 30 – 10:30 a.m.

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 **Quiz and Test days**. 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 in class. These problems will be related to the previous lecture. **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 123A 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	Monday	Tuesday	Wednesday	Thursday	Friday
1	Introduction, 1.1, 1.2	1.3, 1.4, 1.5	1.6, 1.7 Quiz#1 (1.1-1.5)	1.8, 2.1, 2.2	Review, Exam#1(Chapter 1)
2	2.2, 2.3, 2.4	2.4, 2.5, 2.6	2.7, Quiz#2 (2.1-2.5)	2.8, 3.1, 3.2	Review, Exam#2(Chapter 2)
3	No School-MLK (1/19/2015)	3.3, 3.4	4.1, Quiz #3 (Chapter 3)	4.2, 4.3	Review, Exam#3(Chapter 3& 4.1-4.3)
4	4.4, 4.5	4.6, 4.7	5.1, 5.2	Review, Exam#4 (Chapter 4)	5.3, 5.4
5	5.5, 5.6	Review, Exam#5 (Chapter 5)	Final Review	Final Review	Final 8:30-10:30 a.m.

Homework

- # 1.1 Page 10 -- 7, 12, 15, 27-31(odd only) 39, 45, 49, 54, 65, 71, 75, 101
- # 1.2 Page 20 -- 13, 23, 27, 33, 47, 51, 55, 59, 61, 83, 85-91(odd only),
- # 1.3 Page 26 -- 17, 27, 31, 39-51(Odd), 61, 63, 67-73(Odd), 75, 77
- # 1.4 Page 34 -- 11, 13, 16, 24, 28, 41, 45-49(Odd), 63, 71-75
- # 1.5 Page 44 -- 21-39, 45-55, 63, 65, 75-83, 91-105 (Odd only)
- # 1.6 Page 56 -- 10, 15-27, 29, 35-45, 51-79, 85, 93-117, 119 (odd)
- # 1.7 Page 67 -- 11, 17, 23-33, 43, 49, 53, 57, 61, 75-85 (odd)
- # 1.8 Page 73 -- 5-21, 39-77 (odd)
- # 2.1 Page 90 -- 17, 23, 27, 31, 35-49, 53-67 (odd)
- # 2.2 Page 96 -- 29-69, 73, 75 (odd)
- # 2.3 Page 104 -- 23-37, 41, 45, 51, 55-67 (odd)
- # 2.4 Page 115 -- 5-9, 15, 23, 29, 31, 37, 41, 45, 51, 53
- # 2.5 Page 126 -- 13, 39-45, 51, 59-65, 67-79, 91
- # 2.6 Page 136 -- 3, 10, 13, 23, 25, 29-41, 45, 47, 53, 61, 63, 75-99
- # 2.7 Page 146 -- 13, 15, 17, 21, 25, 27, 44, 50
- # 2.8 Page 161 -- 14, 15, 23, 30, 34, 41, 47, 51, 55, 95, 101
- # 3.1 Page 183 -- 11, 15, 23, 27, 31, 69
- # 3.2 Page 196 -- 17-21, 35-43, 55
- # 3.3 Page 208 -- 31, 37, 39, 43-51, 57-63
- # 3.4 Page 219 -- 21, 25, 27, 29, 31, 35, 41, 53-57
- # 4.1 Page 237 -- 19, 21, 33-79, 85, 87, 89
- # 4.2 Page 244 -- 3, 5, 10, 11, 19-33, 39-55, 71, 75, 79
- # 4.3 Page 252 -- 13-21, 29-39, 41, 47, 51, 61
- # 4.4 Page 262 -- 10, 25, 27, 30, 39, 59-67, 79-83, 91
- # 4.5 Page 269 -- 5-11, 19-25, 31, 45-59, 69, 77-87
- # 4.6 Page 274 -- 15, 29-35, 41, 43, 77
- # 4.7 Page 276 -- 7-17, 37, 49-57, 83
- # 5.1 Page 301 -- 7-13, 19, 25, 41-57, 75-83
- # 5.2 Page 308 -- 31-41, 45-49, 53-67, 71
- # 5.3 Page 314 -- 37-69
- # 5.4 Page 323 -- 11-25, 43-51, 55-65
- # 5.5 Page 335 -- 15-57, 67
- # 5.6 Page 343 -- 7-11, 17, 25