



**WEST LOS ANGELES COLLEGE**  
**Mathematics 123B- Section -1482**  
**Spring 2015**

**Instructor : C. Raffel**

**Office Hours: Mon/Wed; 2:10Pm - 3:10pm**

**Class time: Monday through Thursday; 11:10am - 12:15pm**

**Location: ATA: room 210**

**Instructor Email address: [wjesecc@wlaac.edu](mailto:wjesecc@wlaac.edu)**

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

**Textbook:** Beginning & Intermediate Algebra by Lial, Hornsby & McGinnis. The Bookstore has a WLAC Custom Edition which is substantially the same as the regular 5th ed (2012, ISBN- 9780321715869). You should be able to get a used copy, pdf or e-book inexpensively online. We will cover chapters 5-10 in this course and the rest of the book in Math 123C.

**Materials:**

- ◆ Note book
- ◆ Graph Paper
- ◆ Stapler
- ◆ Color pen or pencils

Course Description: Second of three modules for Math 123 covering elementary algebra topics such as addition, subtraction, multiplication and division of polynomials, solutions of second degree equations and radical expressions. Solutions of word problems involving linear equations and inequalities will also be covered.

**General Institutional SLO—Student Learning Objectives**

- A. Critical Thinking: Analyze problems by differentiating fact from opinions, using evidence, and using sound reasoning to specify multiple solutions and their consequences.
- C. Quantitative Reasoning: Identify, analyze, and solve problems that are quantitative in nature
- F. Technical Competence: Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.

**Math Program SLO—Student Learning Objectives**

1. Apply quantitative thinking processes using basic mathematical operations (addition, subtraction, and multiplication, division) to solve common academic, workplace and family problems. (Theme: Mathematical Operations)
3. Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: Mathematical Tools)
5. Select appropriate math strategies for solving and handling real life problems involving finance, economics, and family issues. (Theme: Mathematical ProblemSolving) Specific Learning Objectives: U

**Specific Learning Objectives:** Upon satisfactory completion of the course, a student will be able to:

- 1a. Factor a wide variety of polynomials using a variety of methods: i. GCF(distributive property) ii. Trial and error iii. Grouping iv. Special products
- 1b. Solve polynomial equations using factoring and the zero product property
- 1c. Set up a solve a wide variety of application problems involving polynomial equations, particularly quadratic equations

- 2a. Add, subtract, multiply, divide, and simplify rational expressions (algebraic fractions) and be aware of the domain restrictions of the simplified expressions
- 2b. Simplify complex algebra fractions
- 2c. Solve equation involving rational expressions and be aware of the possibility of extraneous roots
- 2d. Model and solve applications problems involving rational equations and expressions
- 2e. Solve literal equations and deal with scientific formulae
- 2f. Solve problems involving proportions and variation
- 3a. Evaluate simplify, add, subtract, multiply and divide radical expressions
- 3b. Exploit the connection between radicals and rational exponents to simplify radical expressions
- 3c. Solve equations containing radical expressions
- 3d. Model and solve applications problems involving radical equations and expressions
- 3e. Solve quadratic equation by factoring, square roots, completing the square, and the quadratic formula
- 3f. Perform all the standard operations with complex number
- 4a. Explain the concepts of relation and function
- 4b. Work with functional notation,  $f(x)$ , in the context of linear and quadratic functions
- 4c. Explain what domain and range are in the context of simple relations and function

### Methods of presentation:

- ◆ Lecture
- ◆ Class discussions
- ◆ Asking and answering questions
- ◆ Interactive peer-to-peer activities, projects and group

### Course Requirements

1. We will cover chapters 5- 10, strongly recommend that you read the material we will cover in class before that class!
2. **Attendance:**  
I will be taking attendance on daily basis. Students are expected to attend every class. It has been my experience that student who do not attend class regularly perform poorly on the exams. Plan to attend every class meeting on time. For each class meeting during the first 5 -10 minutes will start with a review of the previous homework assignment. This will involve questions by students on specific problems and explanations by the instructor or student. Next, new topics will be introduced. During the lecture, there will be many examples presented. Active participation is very important. At this time, you should ask questions and volunteer answers. Individuals will be called upon in class to provide suggestions on how to proceed with a problem. The methods of instruction in this class will be lecture, discussion, and group learning. You are expected to take an active role in this learning. You are responsible for all information covered in class. **If a students have five hours or more absences, the instructor may drop them from the course and they may receive a grade of a "W".**
3. **Homework:** The most important part of any mathematic course is the homework. Typically in a Math class, to understand the majority of the information it is necessary to continuously practice your skills. This requires a tremendous amount of effort on the student's part. Otherwise, it is impossible to succeed in any college level mathematics class. Do your homework as soon as you can after each class meeting. Read the material in the next lessons before class. **In this course you must expect to spend minimum of at least three hours outside of class for each hour spent in class.**
4. **Class Notes:** Students are required to copy notes from the class discussion. Please keep a separate note book for class notes.

5. **Group work:** This is also another method of instruction for this class. At the end of some of the class meetings are composed group work sessions. (Group of 3 to 4 students). For each group work session, at the end of the class all of the papers will be collected but only one paper from each group will be graded or a quiz is given from the group work problems.
  
6. **Required Homework/ Group Work Format:**
  - ◆ Always present neat work
  - ◆ For every assignment, if your assignment spans more than one page, staple them together
  - ◆ If your paper from a spiral bound notebook, tear off the edge.
  - ◆ Show all adequate steps for the work.
  
7. **In Class Quizzes and Chapter Exams:** There will be 6 quizzes and 4 chapter exams as outlined on the attached schedule. The lowest quiz grade will be dropped. Therefore you will not be allowed to make up any missing quizzes. Arriving late during a quiz/chapter exam will lead you to have less time to complete the quiz/chapter exam. Each chapter exam will be given a maximum of 100 points. No make-up exams will be given, but your final exam will replace one missed exam. Refer to your course schedule in advance for the dates of the quizzes and chapter exams. Review all the corresponding CLASS NOTES and HW problems before each quiz/chapter exam. **Missed quizzes/chapter exams will be scored as zero.**
  
8. **Final exam:** There will be a comprehensive final exam on **06/ 04/2015**. The final exam should be taken seriously and will require a good deal of dedication on your part in terms of study time. Several weeks before the final, you should begin reviewing your homework, class work and quizzes from the semester.

### **Class Expectations:**

- ◆ R E S P E C T: Yourself, Classmates, Instructor
  
- ◆ Please practice positive behavior (cooperation, civility, helpfulness, constructive engagement)
  
- ◆ Avoid disruptive behavior (side conversations, eating/drinking in class, wandering in and out of the room, coming late or leaving early without an urgent reason, etc.).
  
- ◆ Maintain the highest standards of academic honesty. Collaboration is encouraged on most homework, class work, take-home assignments, and test corrections. However, you may NOT give or receive help on tests (except make-up points) and you may not turn in someone else's work as your own.
  
- ◆ If you are discovered committing any act of academic dishonesty (cheating), you will receive no credit ("zero") for the test or assignment AND you will be suspended from class AND the case will be referred to the Vice-President for Student Affairs. For further information see the WLAC Catalogue and Schedule of Classes.

## Grading System

Assignment Category	# of Assign.	Points Per Assignment	Total Points	% of Total Grade
Quizzes	5	20	100	10%
HW	20	5	100	10%
Classwork	25	2	50 +50 EC	5% +(5% EC)
Chapter Exams	4	125	500	50%
Final Exam	1	250	250	25%
<b>Grand Total</b>		-	<b>1000</b>	<b>100%</b>
900 - 1000 = A	800 - 899 = B	700 - 799 = C	600 - 699 = D	599 and below = F

**Cellphone Policy:** Students may not use their cell phones to accept or make calls while in class (no cell phones on the desk). If cell phones and beepers are brought to class, they must be turned to silent or vibration mode. Students who do not adhere to this policy will be asked to leave the class. If it happens a second time, the student will be referred to the Vice President of Student Services, and will return to class only after the Vice President has cleared him/her to return.

**Children in class:** By directives of Academic Affairs, students are not allowed to bring their children to class. Childcare arrangements need to be made outside of class time.

**Disability Policy:** If you have a disability and might need accommodations in this class, please contact Heldman Learning Resources Center (HLRC)121, DSP&S office. I accommodate all necessities you might need in this class upon receiving the required direction from the center. Please contact (310) 287-4450 for more information.

**Cheating Policy:** Cheating constitutes academic dishonesty and in general will be handled as part of the course grading process. The penalty may range from on credit for assignment up to and including exclusion and/or an "F" grade for the course.

**Disclaimer:** Although every effort will be made to adhere to the policies, procedures, and schedules outlined in this syllabus, the instructor reserves the right to revise any information without prior notice.

### Deadlines:

- Drop classes with a refund February 20th
- Drop classes without a "W" ; February 20th
- Drop classes with a "W" ; march 8<sup>th</sup>

### Internet Resources:

- West Los Angeles College ..... [www.wlac.edu](http://www.wlac.edu)
- WolframAlpha ..... <http://www.wolframalpha.com/>
- Purple Math ..... <http://www.purplemath.com/>
- Math TV ..... <http://www.mathtv.com/>
- Khan Academy ..... <http://www.khanacademy.com>

**Please write the phone number and email address of at least three of your classmates in spaces provided here. Having some contact information from your classmates will help you during the semester.**

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_ email: \_\_\_\_\_

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_ email: \_\_\_\_\_

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_ email: \_\_\_\_\_

**I, \_\_\_\_\_, read and completely understood the content of this syllabus. If there are questions or disagreement with the content, I will contact me, on or before March 5<sup>th</sup>.**

**Your Initials: \_\_\_\_\_**

WESL LOS ANGELES COLLEGE

Math 123B; Spring 2015

C. Raffel

Lecture OUTLINE (This schedule is tentative. It is subject to change.)

Week	Monday	Tuesday	Wednesday	Thursday
Week 1 2/9- 2/13	Introduction	Section 5.1	Section 5.2	Section 5.3
Week 2 2/16- 2/20 Assignment #1	<b>Holiday</b>	Sections : 5.4 & 5.5	Section 5.6	Section 6.1 <b>Quiz # 1</b>
Week 3 2/23- 2/27 Assignment #2	<b>EXAM #1</b> Chapters 1 Exam	Section 6.2 & 6.3	Section 6.3 & 6.4	Section 6.4
Week 4 3/2- 3/6 Assignment #3	<b>Quiz # 2</b> Sections 6.1 -6.4	Section 6.5	Section 6.5	Section 6.6
Week 5 3/9- 3/13 Assignment #4	Section 6.7	Section 6.7	Chapter 6 Review	Chapter 6 Review
Week 6 3/16- 3/20 Assignment #5	<b>EXAM #2; Part 1</b> Chapter 6	<b>EXAM #2; Part2</b> Chapter 6	Section 7.1	Section 7.2
Week 7 3/23- 3/27 Assignment #6	Section 7.3	Section 7.4	Section 7.4	Section 7.5
Week 8 3/30- 4/3 Assignment #7	Sections: 7.6	<b>Holiday</b>	Sections: 7.6	<b>Quiz # 3</b> Section 7.1 -7.5
Week 9 4/6- 4/10 Assignment #8	<b>SPRING BREAK</b>	<b>SPRING BREAK</b>	<b>SPRING BREAK</b>	<b>SPRING BREAK</b>
Week 10 4/13- 4/17 Assignment #9	<b>EXAM #3; Part 1</b> Chapter 7	<b>EXAM #3; Part 2</b> Chapter 7	Section 8.1	Section 8.2
Week 11 4/20- 4/24 Assignment #10	Sections: 8.3	Sections: 8.4	Section 8.4 <b>Quiz # 4</b>	Section 8.5
Week 12 4/27- 5/1 Assignment #11	<b>EXAM #4; Part 1</b> Chapter 8	Sections: 9.1	Sections: 9.2	Section 9.3
Week 13 5/4- 5/8 Assignment #12	Sections: 10.1	Sections: 10.2	Section 10.3	Section 10.4
Week 14 5/11- 5/15 Assignment #13	Sections: 10.5	<b>Quiz # 5</b>	Section 10.6	Section 10.6
Week 15 5/18- 5/22 Assignment #14	Sections: 10.7	Sections: 10.7	Review for Final	Review for Final
Week 16 5/25- 5/29 Assignment #15	<b>Holiday</b>	Review for Final	Review for Final	Review for Final
Week 17 6/1- 6/5				<b>FINAL EXAM</b>