Division: Mathematics
Course name: Math 112: Pre-Algebra
Section: 4456 **/ Semester: Fall** 2015

Instructor Name: H. Feiner	**School Website: www.wlac.edu**
Class Hours: MW	**Address: 9000 Overland Ave., Culver City, CA 90230**
5:10 a.m. – 6:35 a.m.	**Location: MSA 005 (may change)**
Office Hours: MW,	**Instructor E-mail: FeinerH@wlac.edu**
2:15-5:00	**Office Location: MSB 219**

Welcome

This semester, you will work to develop your mathematical thinking skills. The goal is for you acquire the basic skills needed to succeed in subsequent technical classes and become more confident. The skills you learn here will help you succeed both in and out of class. However, your education is ultimately YOUR responsibility. YOU determine your level of success. Successful college students are self-motivated. Successful college students understand the importance of studying the material, coming to class prepared and practicing skills learned. YOU CAN DO IT and I'm here to help. Work with me, even when my method is different from what you learned before. Reconcile my presentation with what you think you remember. I try to teach you understanding, not just blind memorization of rules.☺

Course Description:

This course bridges the gap between arithmetic and algebra. It reviews arithmetic and introduces concepts of algebra including signed numbers, variables, exponents, mathematical sentences and linear equations.

This course is designed to give students an understanding of and solidification of the basics of arithmetic. To attain this mastery, students must have a genuine desire to combat arithmetic deficiencies. Topics include operations with whole numbers, common and decimal fractions, percentages, the Cartesian coordinate system. Students are still at the basement of their technical endeavor. If students think that mathematics (like algebra) is irrelevant to their course of study, remember that half the jobs in the future have not yet materialized. We live in a technical society. If you are just out of high school, twenty years from now, when you have more responsibilities and less time, you may regret that you were not serious in mastering basics. This course is not UC/CSU transferable.

If you have acquired an access code to the website that developed this text on line, register with the following information. (Would you like to purchase an access code for around $100?)

Your Course Name: WLAC Math 112 F15

Your Course ID: Feiner04825

Required Text(s)

The textbook. Is "Prealgebra" by Martin-Gay. We will use an earlier less expensive edition. (The seventh edition is presently published.) The ISBN for the seventh edition is
9780321955043

My book at http://resources.wlac.edu/userfiles/feinerh/ArithBook.PDF (free)
You are expected to do homework from the first day on. Lacking Internet access is no excuse. Computers are available in the HLCR (library, first floor).
Having no book yet is no excuse either. You can do substitute homework online as follows:

Log into http://www.interactmath.com/
Enter
Choose a book > (scroll down) Martin-Gay Prealgebra 4e
Submit
Chapter Contents opens. Click on chapter 1 and expand (click on the plus sign).
Click on section 2 "Place value, …" Select question 1. Choose the proper answer and check it.
Then click on circle 2, etc. Exercise all the questions,
When finished, click on Close.
A summary is shown with green checkmarks and/or red Xs. Print this page so that you have proof of having done homework. Put the summary in your homework notebook.

Recommended Materials

NO calculator.
My book at http://resources.wlac.edu/userfiles/feinerh/ArithBook.pdf

Required Materials

- One notebook for class notes
- and one for homework.
- #2 pencils or pens, and an eraser

Course Objectives: (use COR / ECD approved objectives)

Upon successful completion of this course, students will be able to . . .

1. Write and interpret fractions, and represent common fractions in multiple ways.
2. Add, subtract, multiply, and divide common fractions and mixed numbers.
3. Solve applications problems involving common fractions.
4. Read, write, round off, and compare decimal fractions.
5. Add, subtract, multiply, and divide decimals.
6. Convert among common fractions, decimals, and percents.
7. Write, interpret, simplify, and convert ratios and rates.
8. Solve problems involving proportions and percents.
9. Calculate powers and rational roots (where they exist) of rational numbers.
10. Read, construct, and interpret line graphs, bar graphs, and scatter plots.
11. Calculate and interpret the absolute value of a number.
12. Add, subtract, multiply, and divide integers.
13. Add, subtract, multiply, and divide non-integral rational numbers.
14. Identify and correctly use algebraic properties (commutative, associative, distributive; additive and multiplicative identities and inverses).
15. Use and manipulate variable representations in abstract and applied contexts.
16. Use basic properties of integer exponents to simplify expressions.
17. Add, subtract, multiply polynomials; divide a polynomial by a non-zero monomial.
18. Solve linear equations using the addition, subtraction, multiplication, and division.

Student Learning Outcomes (SLO)

Solve elementary practical applications using fractions and decimals.

Criterion Level: Each question will be answered correctly by at least 50% of students (fractions, mixed numbers) or 60% of students (decimal numbers).

Criterion Level : Each question will be answered correctly by at least 50% of students (fractions, mixed numbers) or 60% of students (decimal numbers).
Construct variable representations in abstract and applied contexts.

Criterion Level : Each question will be answered correctly by at least 40% of students.
Construct variable representations in abstract and applied contexts.

Criterion Level : Each question will be answered correctly by at least 50% of students.

Course Requirements and assignment guidelines

If you don't have internet access at home, to get started on homework because you do not have a book, there are computer labs on campus.

Quizzes
Quizzes will be given regularly to ensure that you are keeping up with the readings, homework, and attending class. Missed quizzes cannot be made up, even if you arrive late to class. Any extra credit points given to the class will not be given to a student who misses three unexcused absences or six instances of tardiness. An excuse needs to be substantiated in writing.

Other assignments, as listed below, will occur in class and serve to reinforce learning:
- Homework. Collect only homework in your notebook for homework. Do every other odd-numbered problem in the sections we cover in class. Bring to class daily. Turn in before a scheduled test. Show the chapter and section number on each odd-numbered page. Show your reasoning/work unless the problem is trivial. Box in your answers. No late homework.
- Exams (no exam will be dropped)
- Final
- Bring your textbook and supplies to class every time.

Late Assignments
No credit.

Grading

Assignment Category	# of Assign.	Points Per Assignment	Total Points	% of Total Grade
Quizzes	Approximately 25	2	50	
Tests	5	100	500	65%
Final	1	300	300	35%

Homework	See quizzes	-	-	-
Grand Total	**35**	**-**	**800**	**100%**
765 – 850 (90%) = **A**	680 - 764 (80%) = **B**	595 –679 (70%) = **C**	510 - 594 (60%) = **D**	599 and below = **F**

Class Policies

Attendance

Because class discussions are an integral part of this course, attendance is mandatory. Up to 3 absences are allowed. After that, you could be dropped. Students are expected to attend every class meeting, to arrive on time and stay throughout the class period. **Excessive absenteeism, as well as walking in and out of class, will lower your grade through omission of extra credit.** 3 tardies = 1 absence. Students may be dropped from class for excessive tardiness, or for failure to attend class the first day.

Walking In and Out of Class

When you arrive to class, make sure you have used the restroom, had a chance to eat, check your messages, etc. Walking in and out is rude and disruptive. If you need to leave early, or have some other problem, you need to notify me in advance. **Any student who makes a habit of walking in and out of class may be asked to leave.**

Preparedness

You are expected to arrive on time. You will come to each class session prepared. You will have your book, notebooks, pens/pencils, any work that is due, and you will be prepared to discuss all past assignments.

Cell Phones, iPods, etc.

Turn them off and put them away when class begins! Although it may not seem possible, you can survive without talking and texting on your cell phone, or listening to your iPod, for a little over an hour. Talking and texting on cell phones not only distract you, but they are a distraction for me and your peers. Distractions interrupt/disrupt the class and I will not tolerate interruptions. **You will be asked to leave if this occurs.**

Contacting Me

E-mail is the best and quickest way to contact me. **If you have a problem, do not let it snowball. Contact me immediately.** Students are expected to ask questions and obtain help from instructor via email and/or during office hours.

For more information refer to the attached link:
http://www.wlac.edu/academics/pdf/WLAC_12-14Catalog_Policies.pdf

College Policies:

Academic Integrity (Plagiarism)

In accordance with code 9803.28, **academic dishonesty is prohibited and will not be tolerated in this class.** Violations of academic integrity include, but are not limited to, the following actions: cheating on an exam, plagiarism, working together on an assignment, paper or project when the instructor has specifically stated students should not do so, submitting the same term paper to more than one instructor, or allowing another individual to assume one's identity for the purpose of enhancing one's grade. Academic dishonesty of any type, such as cheating or knowingly furnishing false information,

by a student provides grounds for disciplinary action by the instructor or college. In written work, no material may be copied from another without proper quotation marks, footnotes, or appropriate documentation.

- o **Plagiarism (cheating during an exam) will result in a zero for the assignment, possible dismissal from the class and disciplinary action from the college.**

Student Conduct

According to code 9803.15, disruption of classes or college activities is prohibited and will not be tolerated. Refer to the catalog and the Standards of Student Conduct in the Schedule of Classes for more information.

Recording Devices

State law in California prohibits the use of any electronic listening or recording device in a classroom without prior consent of the instructor and college administration. Any student who needs to use electronic aids must secure the consent of the instructor. If the instructor agrees to the request, a notice of consent must be forwarded to the Vice President of Academic Affairs for approval (WLAC College Catalog).
For more information refer to the attached link:
http://www.wlac.edu/academics/pdf/WLAC_12-14Catalog_Policies.pdf

Campus Resources

As stated earlier in this syllabus, **if you are having problems, don't let them snowball.** Come and talk with me and check out some of the campus resources available to you.

Office of Disabled Student Programs and Services (DSP&S)

Student Services Building (SSB) 320| (310) 287-4450.
West Los Angeles College recognizes and welcomes its responsibility to provide an equal educational opportunity to all disabled individuals. The Office of Disabled Students Programs and Services (DSP&S) has been established to provide support services for all verified disabled students pursuing a college education. DSP&S students may qualify for: priority registration, registration assistance, special parking permits, sign language interpreters and assistive technology (WLAC College Catalog).

Instructional Support (Tutoring) & Learning Skills Center

Heldman Learning Resources Center (HLRC) | (310) 287-4486
Improve your reading, language, vocabulary, spelling, math fundamentals and chemistry knowledge with convenient, self-paced computer-aided courses in the Learning Skills Center. Increase your knowledge and learning success: sign up for tutoring in various college subjects (WLAC College Catalog).

Library Services

Heldman Learning Resources Center (HLRC) | (310) 287-4269 & (310) 287-4486
The WLAC Library provides instruction on how to use the online catalog, periodical and research databases. In addition to a large collection of books, periodicals and videos the WLAC Library has course textbooks which students may use while in the Library. Web access is available in LIRL as well as meeting rooms. The upper floors provide a beautiful view ideal for study (WLAC College Catalog).
For more information refer to attached link:
http://www.wlac.edu/academics/pdf/WLAC_12-14Catalog_Policies.pdf

Math 105 Class Schedule – Spring 2015   **8:00 a.m. – 10:05 a.m.**

NOTE: This syllabus and class schedule is subject to change if circumstances warrant it (e.g. student performance, etc.). **Expect revisions and divergences.**

Tentative schedule:

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Math 112 HF S15	
M 8/31:1.2:Place Value, Names for Numbers, Reading Tables. M 8/31: 1.3: Adding/ Subtracting Whole Numbers, Perimeter M 8/31: 1.4: Rounding and Estimating	W 9/02: 1.5: Multiplying Whole Numbers and Area W 9/02: 1.6: Dividing Whole Numbers
M 9/07: No classes	W 9/09: 1.7: Exponents and Order of Operations W 9/09: 1.8: Introduction to Variables, Algebraic Expressions and Equations.
M 9/14: 2.1: Introduction to Integers. M 9/14: 2.2:Adding Integers	W 9/16: 2.3: Subtracting Integers. W 9/16: .4: Multiplying and Dividing Integers.
M 9/21: ..2.5: Order of Operations M 9/21: 22.6: Solving Equations. The Addition and Multiplication Properties	W 9/23: **Test 1**
M 9/28: 3.1: Simplifying Algebraic Expressions. M 9/28: 3.2: Solving Equations. Review of the Addition and Multiplication Properties.	W 9/30: 3.3: Solving Linear Equations in One Variable. W 9/30: 3.4: Linear Equations in One Variable and Problem Solving.
M 10/05: 4.1: Introduction to Fractions and Mixed Numbers.	W 10/07: 4.2: Factors and Simplest Form.
M 10/12: . 4.3: Multiplying and Dividing Fractions. M 10/12: 4.4: Adding and Subtracting Like Fractions. Least Common Denominator. And Equivalent Fractions	W 10/14: 4.5: Adding and Subtracting Unlike Fractions
M 10/19: 4.6: Complex Fractions. Review Order of Operations	W 10/21: 4.7: Operations on Mixed Numbers.
M 10/26: .4.8: Solving Equations Containing Fractions	W 10/28: **Test 2**
M 11/02: 5.1: Introduction to Decimals. M 11/02: 5.2: Adding and Subtracting Decimals. M 11/02: 5.3: Multiplying and Circumference of a Circle.	W 11/04: : .5.4: Dividing Decimals. W 11/04: 5.5: Fractions, Decimals, and Order of Operations
M 11/09: 5.6: Solving Equations Containing Decimals. M 11/09: Remember definitions: Mean, Median, and Mode.	W 11/11: No Class
M 11/16: **Test 3**	W 11/18: 6.1: Ratios and Rates. W 11/18: 6.2: Proportions. W 11/18: 6.3: Proportions and Problem Solving. Skip 6.4, 6.5
M 11/23: 7.1: Percent, Decimals, and Fractions M 11/23: 7.2: Solving Percent Problems with Equations. M 11/23:7.3: Solving Percent Problems with Proportions	W 11/25: 7.4: Applications of Percent. W 11/25: 7.5: Percent and Problem Solving: Sales Tax, Commission, and Discount
M 11/30: 7.6 Percent and Problem Solving: Interest.	W 12/02: Skip 8.1, 8.2. W 12/02: 8.3: Rectangular Coordinate System. Paired Data.
M 12/07: Graphing Linear Equations in Two Variables. M 12/07: Skip 8.5	W 12/09: **Test 4**
M 12/14: Review	W 12/16: **Final 10:15**
M	W: