

MATH 112 – Pre-Algebra (3 Units)

Spring 2014

Section 0344, TTh, 8:55am-10:20am, CMS 127

Instructor : Timothy Ferguson, MS, ASA
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 Office : CMS 247 Voicemail: (818) 364-7600 x4849 (Not recommended)
 Office Hours : TTh 12:10-12:43, and by appt
 Prerequisite : Math 105 with a grade of “C” or better, or appropriate skill level demonstrated through the Mathematics assessment process, or by permit.
 Textbook: **Prealgebra (6th Ed)**, Elayn Martin-Gay (Prentice Hall), & MyMathLab access code
We will cover: Chaps 1 to 10 (except 5.7, 8.5, 9.7. 10.4 is Optional).
 Important Dates: Last day to Add – Feb. 21
 Last day to drop without a “W” – Feb. 23
 Last day to drop with a “W” – May 11
 Final Exam – Tuesday, June. 3, 10:00am-12:00pm
 Holidays – April 8, 10, May 27

Course Description	This course bridges the gap between arithmetic and algebra. Topics include a review of arithmetic and an introduction to fundamental algebraic concepts. A scientific (not graphing) calculator is required for Ch 6-10.
Methodology	This course is taught in lecture format. To excel at College level, the student must prepare for class by reading upcoming textbook material before it is covered in class. Remember: Learning is not a spectator sport! Fundamentally, the responsibility to learn is yours and yours alone. I will help you all I can, but you must be prepared and ready to learn before you come to class. I will keep you informed as to what material is coming up. <u>Please bring your textbook to class.</u> <u>It is very important that you keep up with the lectures and in-class tests.</u> If you need more individual help, you should avail yourself of the math tutors in the Math Lab, Math Center, and my office hours, listed above.
Student Learning Outcomes	1. Perform operations and simplify numerical and algebraic expression involving integer and rational numbers. 2. Write linear equations for word problems and solve.
Homework	<u>You are required to use MyMathLab at MyMathLab.com.</u> The course ID is <u>FERGUSON69364</u> . Instructions for registering are at lamission.edu/math. Select Math <u>105</u> under <u>Course Resources</u> then click on <u>MyMathLab Student Registration Instructions</u> . The deadline for completing the homework is the day and time of the applicable Midterm. NO LATE WORK WILL BE ACCEPTED . Failure to do the homework (that is, failure to practice/rehearse/prepare for tests) is a sure way to fail any College course. This syllabus is based on the expectation that the student will put in at least two hours of homework for every hour in class.
Midterms	Midterms are scheduled for after Chapters 1, 3, 5, 8, and 10. Midterms will usually be held the second class after the material is covered in class.
Final Exam	Tuesday, June 3, 10:00am-12:00pm. Comprehensive and Mandatory.
Grading	Homework (Online) = 8 Class Points (2 points each, throw out lowest 1) Midterms (5) = 60 Class Points (15 points each, throw out lowest 1) Final exam = 32 Class Points

	<p>This schedule means that there will be an exam approximately every 2-3 weeks. <u>So keeping up with the class schedule is extremely important!</u></p> <p>Your final grade for this course will be determined in the following way: 90 Class Points and above = A, 80-89 Class Points = B, 70-79 Class Points = C, 55-69 Class Points =D, Below 55 Points = F</p> <p>NO Make-up exams will be given. NO EXCEPTIONS. If you need to contact me outside of class and office hours, email is preferred.</p>
Attendance/ Behavior	<p>All students are expected to arrive on time and stay for the entire class. Late arrivals are disruptive to both the lecturer and students. Once you are seated, do not leave the room, as such comings and goings are disruptive. Students must turn off all electronic devices, including cell phones, while in class. Students are encouraged to ask questions and make comments on the lecture material. This should be done in a courteous manner by raising one's hand and being recognized. Side conversations between students that disrupt the flow of the lecture will not be tolerated as they are a distraction to other students. <u>It is the student's responsibility to manage his or her academic workload.</u> Should a student decide to stop attending class it is their responsibility to drop the class. All students appearing on the grade roster will receive a grade regardless of whether they are attending classes or not. <u>Any student who misses 4 or more class meetings, or 2 or more in the first 2 weeks, or 2 or more Midterms may be dropped from the class.</u> Any act of academic dishonesty or behavior that disrupts the class (e.g. the above mentioned personal conversations) will be handled according to LAMC policies. Absolutely <u>no talking during exams.</u> If you have a problem, ask me.</p>
Student Info	<p>It is the students' responsibility to know all LAMC Add and Drop dates and procedures, and to follow procedures by the deadlines. Also, please be aware of Financial Aid opportunities, and special programs such as EOPS, MESA, and Internship possibilities. DSPS students should inform me ASAP in order to make any applicable arrangements. Except for bottled water, no food or drink in the classroom.</p>

Main Topics to be Covered

- 1) Find the prime factorization of a given number.
- 2) Evaluate expressions using order of operations.
- 3) Simplify expressions with exponents.
- 4) Solve equations with whole numbers and integers.
- 5) Combine like-terms.
- 6) Analyze word problems, translate into linear equations and solve.
- 7) Evaluate expressions with fractions and mixed numbers, including order of operations and complex fractions.
- 8) Evaluate expressions with decimals and square roots.
- 9) Analyze and graph linear equations.
- 10) Convert numbers to percents and evaluate applications such as discounts, interest, commissions, etc.
- 11) Solve ratios and proportions, translate and solve word problems thereof.
- 12) Calculate perimeters and areas of polygons
- 13) Distinguish between complementary and supplementary angles as well as acute, right, obtuse, and straight angles.

SPECIAL STUDENT ADVISEMENT:

Students are limited to three attempts at passing a course with a "C" or better. Any letter grade or "W" counts as an attempt. And this rule is retroactive. This means for example that if a student got a "W" and a "D" in Math 115 two years ago, he/she has one more chance to pass before he/she is prevented from enrolling in Math 115.

Additional Support material for this course includes: Software based tutorials, topic specific video presentations, and tutoring, available at the Math Center, and Math Lab in the Library.

Study groups are strongly encouraged.