

MATHEMATICS 112 – PRE-ALGEBRA - 3 UNITS TTh 11:10-12:35pm Room SC 105 Section#1457 Fall 2013

Instructor: Dan Guo

Office MSB 212

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Office Hours: MW 10:40-11:40pm

PREREQUISITE: Math 105 or equiv.

Final Exam Date: Tuesday, December 10, 2013 12:30-2:30

This course is designed to give the student an understanding of and a competency in arithmetic operations with whole numbers, fractions, decimals, percents; ratios, rates, and proportions; applications of arithmetic, including percent problems; operations with signed numbers; uses of variables in Algebra; definitions and applications of basic algebraic properties; writing and simplifying algebraic expressions; and solving simple linear equations.

The following *STUDENT LEARNING OUTCOMES (SLOs)* will be evident throughout the course: A. Critical Thinking: Analyze problems by differentiating fact from opinions, using evidence, and using sound reasoning to specify multiple solutions and their consequences, B. Communication: Effectively communicate thought in a clear, well-organized manner to persuade, inform, and convey ideas in academic, work, family and community settings, and C. Quantitative Reasoning: Identify, analyze, and solve problems that are quantitative in nature.

Text: PREALGEBRA, 4th Edition, by K. Elayn Martin-Gay

Calculator: **No Calculators on Quizzes or Tests!!** Otherwise, you may use a calculator to *check* your calculations only! A calculator is not really necessary in this course, however. Please do not use a calculator to do the homework.

Course Requirements

1. 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 process. You are responsible for all information covered in class. Taking good notes in a math notebook on concepts and examples is **necessary!** You will turn in class notes from the chapter the day of the chapter test.
2. We will cover chapters 1-8, and part of Chapters 9 and 10. Chapters 1 will be considered review, covered briefly the first week of school. Skipping most of chapter 2 temporarily, we begin the course the second week with a THROUGH examination of fractions, chapter 3. We will cover one or two chapter sections every class meeting. I strongly recommend that you read the material we will cover in class BEFORE that class!
3. ATTENDANCE: You are expected to attend regularly and on time, with cell phones turned off. Attendance to all class sessions is required, and you will sign-in daily. Please plan your schedule so that you arrive on time. Significant number of absences will affect your grade. You may be dropped due to excessive absences. However, you should not, under any circumstances, assume that you will be officially dropped from the class role by the instructor. It is the student's responsibility to officially drop the course if they decide to do so. Last Day to Drop with a "W" is Friday, November 15, 2013. (**Attendance 5%**)
4. GROUPWORK and QUIZZES: Occasionally we will use group learning sessions in class. Groupwork will occasionally be collected and graded. You may also have short homework quizzes. Groupwork and short homework quizzes will usually be scored on a 5 point scale. There will be no make-up quizzes.
5. HOMEWORK: Essential to pass this course--practice! All homework problems must be done to assure adequate preparation for examinations. You are expected to do 5-10 hours of homework per week! Homework will be assigned daily. At the beginning of each class, we will go over the previous night's homework, so make sure you have completed it so that you can participate in the discussion. All chapter homework will be due and collected the day of the chapter test. **Copy each problem**, and present the solution clearly. Box your answers. **DO NOT JUST TURN IN A LIST OF ANSWERS – THIS WILL RECEIVE NO CREDIT.** Staple your assignments in order, and identify with your name and chapter number. Late homework will not be accepted. Answers to all assigned problems are in the back of the book. **Turn in your class notes separate from your homework.** Book homework sections will be scored on a 5 point scale. Chapter notes are graded on a 10 point scale. **Book homework (10%), notes (5%), group work (5%) and in class quizzes(10%) of your grade.**
6. TESTS: You will have approximately 4 in-class exams (closed-book, closed-notes) given approximately every 3-4 weeks, and will cover material from usually one or two chapters. Each exam is graded on a 100 point scale. See me early if you must miss an exam. **These exams will count for 40% of your grade.**
7. FINAL: **The cumulative final exam will count for 25%** of your grade. No make-up final will be given.

Grading: 90-100% - A; 80-89% - B; 70-79% - C; 55-69% - D

HELP! Get help when needed! See me in my office, go to the math lab regularly (MSB 214), work together outside of class. Keep all your homework and tests. **SIGN UP FOR PD 5 – COLLEGE MATH SURVIVAL.** Additional books, such as Math Study Skills Workbook (Paul Nolting), Conquering Math Anxiety, and How to be a Great Math Student can be quite helpful. **SIGN UP FOR MATH 100 –TUTORING!!!**

NOTE: **If you have a disability and might need accommodations in this class, please contact *Disabled Student Program & Services (DSPS)* in Building HLRC 121 as soon as possible to ensure that you receive the accommodations in a timely manner. You may also discuss your need for accommodations with me.**

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