Math 210: Pre-Algebra, Spring, 2017, De Anza

Instructor: Elizabeth Zapata

Office Hours: TBD, and by appointment

E-mail Address: zapataelizabeth@fhda.edu

You may contact me through email. I do not have an office phone.

Required Text:
ISBN: 9781133365457   Edition: 6TH
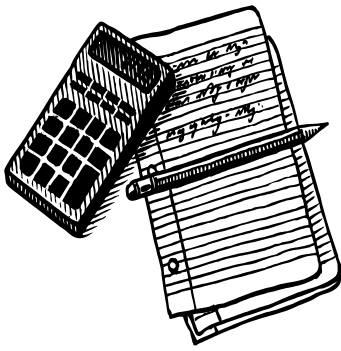Title: PREALGEBRA:AN APPLIED APPROACH
Author: AUFMANN
Recommended: scientific calculator for homework

Student Learning Outcomes:

• **Student Learning Outcome**: Demonstrate and apply a systematic and logical approach to solving arithmetic and geometric problems.

• **Student Learning Outcome**: Demonstrate and apply the knowledge and skills required to select the correct introductory formulas, procedures, and concepts from algebra and geometry and use them to solve problems.

Course Objectives

A. Develop, throughout the course as applicable, systematic problem solving methods
B. Solve problems involving arithmetic operations, including fractions, percents and decimals
C. Apply the order of operations to evaluate numerical expressions
D. Solve problems involving operations with signed numbers
E. Explore the characteristics and properties of real numbers
F. Use estimation to determine approximate solutions and to check the reasonableness of answers
G. Explore rates and ratios and use proportions to solve problems
H. Explore, as applicable throughout the course, the geometry of mathematical measurements and solve problems involving geometric figures and formulas
I. Explore the use of variables in expressions and evaluate algebraic expressions
J. Solve linear equations in one variable numerically and algebraically
K. Interpret linear relationships in two variables numerically, graphically using the Cartesian coordinate system, verbally and algebraically
L. Explore the concept of function
M. Investigate, throughout the course as applicable, how mathematics has developed as a human activity around the world

Supplies for Class:

Textbook
Scientific calculator (for homework, not tests)
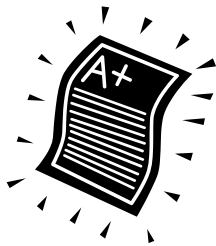*Highlighter (any color)*
*Pencils and eraser (**no pen**)*

*Math assignments turned into me should never be done in ink; **use pencil** for homework and all assessments.*

Grading:
Grades will be assigned as follows:

90 - 100%	A
80 - 89 %	B
70 - 79 %	C
60 - 69 %	D
0- 59 %	F

- **Exams:** 40%
- **Homework and Quizzes:** 30%
- **Final Exam:** 30%

Requisites: Advisory: EWRT 211 and READ 211 (or LART 211), or ESL 272 and 273.

Hours: Five hours lecture (60 hours total per quarter).

Description: Use of basic arithmetic in application problems, estimation, the real number system, variables and linear equations, graphs of linear equations and the Cartesian coordinate system, the concept of function.

Academic Honesty: Academic honesty is expected; cheating will not be tolerated. Cheating will be dealt with according to Board Policy No. 5515. Please refer to your Student Handbook.

Exams:
1. We will have 3 – 4 exams over the semester.
2. Each exam will be worth about **100 points**.
3. Exams **will be given during regular class time in the classroom** No chapter work (homework, quizzes or study guides) will be accepted after the Chapter Exam.
4. The Final Exam will be comprehensive and mandatory. It will be worth **200 points.**
5. For all exams, you **must show the set-up of the problems, the steps to completion and the correct labels for problems in order to receive credit on tests.** <u>**If no work is shown, no credit will be given.**</u> Neatness is important! If I can't find or follow your work, then deductions will be made.

> **No make-up exams….I will replace the lowest score for one exam (or one missed exam) with the percentage you receive on the final exam, as long as it is better than your lowest exam score. (If you miss more than one exam, the missed exam score will be 0 points.)**

Homework:
1. Homework will be assigned online for each chapter section.
2. Homework will be worth **10 points for each chapter** and will not receive credit after the Chapter Exam. You must hand in written work for each homework assignment.

Quizzes:
1. Quizzes will be taken weekly for each chapter section.
2. Quizzes will be worth **5 points for each chapter**.

Problem Sets:
1. Hand-written Problem Sets will be assigned for most chapters.
2. Problem Sets will be worth **20 points for each chapter** and will not receive credit after the Chapter Exam.

Homework is a very important part of being successful in a math course. Doing the assigned homework helps you learn the material and internalize it. It is one of the keys to passing tests, and therefore the course. Please do it, and do it well.

My expectations:

1. Homework problems will be assigned each class meeting to be worked out by an assigned due date. This is your chance to practice and learn the material. I will take a few minutes at the beginning of each class to answer questions on the homework (as time allows).
2. Complete all assigned problems. The best way to learn math is to "DO" it!
3. Please check your answers. Redo the homework problems as many times as need to understand.
4. *Seek out help and make corrections to problems that you got wrong. Check out the Math Resource Center for help.*

Note on Cell Phones and other electronic devices: Turn them **off** before class begins. You may not use the calculator feature on your cell phone during quizzes or tests. If one must be left on for an emergency reason (notify me beforehand), please exit the classroom quietly to take care of the emergency.

NO TXTING/Facebooking DURING CLASS!!!

Attendance: In order to be a success in this class, you must have regular attendance from the very first class! We cover a lot of material in a short amount of time. Missing even one class can significantly have an effect on your understanding for the rest of the semester. If you are absent be sure to find out from a classmate exactly what was covered that day, get a copy of any handouts that were given, and find out whether any announcements of which you should be aware were made. Copies of the completed Study Guides are available in the Learning Center.

I strongly encourage you to get to know other students in the class. If you miss a class, you can call someone to find out what you missed. You can help each other with homework and study for quizzes and tests.

Class Conduct: While I hope the atmosphere of the class is fairly relaxed, I take the learning of mathematics seriously. Please show consideration and respect for others, and **do not engage in private conversations during class time, including txt msg/facebook conversations!!!** During my lecture, I often give problems for you to attempt at your desk. My expectation is that everyone will actively participate in working these problems. Attempting the problems in class gives you a check of your understanding, and allows you to ask questions before leaving class to work on the homework.

Tips for Success:

1. Keep Up. Attend class every day. Do each homework assignment promptly. Do not wait until the night before the test to attempt to learn the material. It is much better to keep up than to play "catch up".

2.Be Organized. Keep your notes, homework, tests, and class work organized in a binder.

3.Jot down questions as you study. You may be able to figure it out yourself later, or you could ask a classmate. But you will most likely forget the question altogether if you do not write it down.

4.Study with a group. Find a group of students who are working to do well in the class and would like to meet regularly. Helping other students and being helped by other students is often beneficial for everyone involved.

5.Ask for help. When there is something you simply don't understand take an active role in finding out what you don't know. It may be a large idea or just a little one. This is the time to talk to someone who can help you (a friend, a tutor, or others in the class.) If there is not time to ask your questions in class, be sure to make use of my office hours. My office hours will be held in the Math Resource Center. Don't hesitate to come by and ask questions.

Resources

1. **Your textbook**. Read it. It has many great examples and explanations. I highly recommend that you read the sections we will be covering before class. You may not understand all the information at that time, but after you hear the lecture on that section, you will understand it more easily than if you had not read it before. Some students find the solution manual useful as well. Be aware that there are a few errors in the solutions manual.

2. **Me**. Feel to talk to me after class, email me, visit my office, or call my voice mail. I am willing to discuss anything related to the course such as course content, grading, missed classes, learning disabilities, etc.

3. **Other classmates.** Exchange phone numbers or email addresses with others in the class and make plans to work together.

4. **The Math Resource Center**: Tutorial support for many academic subjects taught at De Anza is available here. Hours and Location:

5. **Counseling:** De Anza counselors provide academic, career and personal counseling by appointment. Students are encouraged to see a counselor each semester to aid in academic planning and selection of coursework.

6. **Disabled Services:** Disabled Services is designed to provide customized services to meet the needs of students with disabilities. Staff is committed to assisting physically, communication or learning disabled persons to participate in the educational process and achieve their goals. **Any student needing accommodations must supply written verification/exam form and give me at least 48 hours notice**. I am happy to accommodate your needs.