Math 112: PreAlgebra


Other Necessities: A scientific calculator (for use after Chapter 4) & graph paper.

Distractions: In order to encourage / promote a positive learning environment: only assistive electronic devices are permitted. All others must be turned off and put away.

Topics:

- Ch 1 Operations with Whole Numbers
- Ch 2 Operations with Integers
- Ch 3 The Language of Algebra
- Ch 4 Fractions & Mixed Numbers
- Ch 5 Decimals
- Ch 6 Graphing & Polynomials
- Ch 7 Percents
- Ch 8 Ratios & Proportions
- Ch 9 Geometry

Learning Outcomes: Upon completion of this course, the student will be able to:

1) Find the prime factorizations.
2) Evaluate using order of operations.
3) Simplify expressions with exponents.
4) Solve equations with 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 & square roots.
9) Analyze and graph linear equation.
10) Convert 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.

Requirements:

- Six Exams
- Final
- Assigned Homework/Quizzes/Group
- Math Center Tutoring (at least 15 hours is worth bonus towards HW)

Grades:

- A 90–100
- B 80–89
- C 70–79
- D 60–69

Exam and Due Dates (excluding quizzes):

- First Exam: February 14
- Second Exam: February 28
- Third Exam: March 20
- Fourth Exam: April 10
- Fifth Exam: April 24
- Sixth Exam: May 15
- Final Exam: May 27 @ 10 – 12 PM

Other Important Dates for Semester:

- Last Date to Drop w/o W: March 3
- Last Date to Drop with a W: May 5

Note: This is a mathematics course!! Every student starts with an “A”! In order to keep that “A” you need to do the homework, attend class regularly, and take notes carefully. What looks easy on the board may not be so easy at home (without good notes). Your questions are not only welcome, they are strongly encouraged. Consider this: whenever you ask a question you do so on behalf of a number of students who also would like to know the answer! Please take advantage of the free tutoring and textbook video services provided in the Learning Assistance Center and Math Center on campus—definitely a privilege! Furthermore, the computer disc included with your textbook has been extremely helpful with comprehension and grades! Remember that College Policy is that a student can be dropped after missing three classes BUT it is your responsibility to drop the course if something unforeseen occurs. Homework will only be accepted promptly at the first of class. Make-up exams and quizzes will not be given, so make arrangements to attend regularly now!