

Math 75 Pre-Algebra Syllabus

COURSE MATO75, 10419 SECTION M03

INSTRUCTOR: Ronald Piccoli – Phone: (860) 887-2163,
Leave your name, number, message and the best day and time for a return call.
E-MAIL: rpiccoli@trcc.commnet.edu OR log on to <http://vista.ctdlc.org>

COURSE DESCRIPTION: This course focuses on basic arithmetic and pre-algebra skills. Topics include whole numbers, fractions, decimals, signed numbers, proportions, percents, algebraic expressions and equations, elements of geometry and statistics. (Course does not count towards the minimum requirements for graduation.)

PREREQUISITE: Acceptable placement score

COURSE OBJECTIVES: To (re)introduce the student to the skills and concepts of basic arithmetic and pre-algebra. The student will become familiar with and learn to work with whole numbers, fractions, decimals, signed numbers, proportions, percents, algebraic expressions and equations, elements of geometry and statistics.

TEXTBOOK: *Prealgebra*, fourth edition, K. Elayn Martin-Gay; Pearson, Prentiss Hall

COURSE OUTLINE: See Attached Sheet

ATTENDANCE: No attendance requirement. However, I will check to see who is at every class and those who attend, demonstrate that they are trying and will be given benefits accordingly.

HOMEWORK: An assignment will be given at the end of each class. You are expected to have completed it by the next class. Solutions will be reviewed in class.

TESTS & QUIZES: There will be five tests, a final and several quizzes. Each quiz is worth 100 points. The tests are equivalent to two quizzes.

MAKE-UP TESTS: If you miss a quiz or a test it must be made up at the next class that you attend, preferably prior to the start of the class. Failure to make up a quiz or a test will result in an "F" grade on that quiz or test.

GRADES: One quiz grade will be dropped. The rest of the grades will be weighted and averaged to give you your final grade.

GRADING SYSTEM (Letter Grades and Corresponding Numerical Grades):
A (94-100), A- (90-93), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (below 60)

OFFICE HOURS: The hour prior to class or by appointment.

Day	Sections	Assignment
M 1-23	1.8 -1.9	PG 107-108, Chapter Test
W 1-25	2.1, 2.2, 2.3	PG 160-161, 3-58 E3
M 1-30	2.4, 2.5	PG 143-144, 5-100; 153-155, 5-100 E5
W 2-1	3.1, 3.2, Review	Review for the Test
M 2-6	Test 1	PG 177-179, 4-80; 185-187, 4-82 E4
W 2-8	3.3, 3.4	PG 195-197, 5-100 E5; 205-207, 4-84 E4
M 2-13	3.5, Review	Review for the Test
W 2-15	Test 2	
M 2-20	Lincoln's Birthday	
W 2-22	4.1, 4.2, 4.3	333-334, 2-46 E2
M 2-27	4.4, 4.5	PG 281-285, 4-84 E4; 293-298, 5-120 E5
W 3-1	Quiz, 4.6, 4.7	PG 305-308, 4-80 E4; 315-316, 4-64 E4
M 3-6	4.8, Review	Review for the Test
W 3-8	Test 3	
M 3-13	5.1, 5.2, 5.3	PG 449-450, 1-46 Chapter Review
W 3-15	5.4, 5.5, 5.6	PG 450-451, 47-85 Chapter Review
M 3-20	Spring Break	
W 3-22	Spring Break	
M 3-27	5,7, 5.8, Review	PG 453-454, Chapter Test
W 3-29	Test 4	
M 4-3	6.1, 6.2	PG 461-464, 4-60 E4; 467-471, 4-56 E4
W 4-5	6.3, 6.4	PG 479-482, 4-72 E4, PG 489-491, 4-32 E4
M 4-10	Quiz, 7.1	PG 523-529, 5-125 E5
W 4-12	7.2, 7.3	PG 535-537, 4-48 E4; 545-546, 4-48 E4
M 4-17	7.4, 7.5	PG 555-559, 4-48 E4; 565-568, 4-48 E4
W 4-19	7.6, Review	Review for the Test
M 4-24	Test 5	
W 4-26	8.1, 8.2	PG 601-607, 4-80 E4, PG 613-616, 4-44 E4
M 5-1	8.3, 8.4	PG 623-626, 4-48 E4; 637-640, 4-48 E4
W 5-3	8.5, 8.6	PG 645-646, 4-36 E4; 651-653, 4-44 E4
M 5-8	Quiz, 9.3	PG 711-779, 1-48 Chapter Review
W 5-10	9.4	PG 723-714, 3-59 E3
M 5-15	Review	Review for the Final
W 5-17	Final	

COURSE CONTENT AND OUTCOMES

CHAPTER 1: Whole Numbers, Intro to Algebra

Upon completion, student must be able to:

1. Evaluate exponential expressions,
2. Use the order of operations rule,
3. Evaluate algebraic expressions, and
4. Translate sentences into variable expressions.

CHAPTER 2: Integers

Upon completion, student must be able to:

1. Identify integers, opposite numbers,
2. Find the absolute value of a number,
3. Add, subtract, multiply; and divide integers, and
4. Use the order of operations rule to evaluate algebraic expressions for integer values of variable.

CHAPTER 3: Solving Equations & Problem Solving

Upon completion, student must be able to:

1. Use properties of numbers to combine like terms, multiply expressions, and simplify them,
2. Use addition and multiplication Properties of equality to solve equations,
3. Solve linear equations in one variable, and
4. Solve problems.

CHAPTER 4: Fractions

Upon completion, student must be able to:

1. Identify the numerator and the denominator of a fraction,
2. Identify proper, improper fractions, mixed numbers, and equivalent fractions,
3. Compare the fractions,
4. Factor the numbers
5. Add, subtract, multiply; divide fractions, mixed numbers,
6. Simplify complex fractions,
7. Solve equations containing fractions.

CHAPTER 5: Decimals

Upon completion, student must be able to:

1. Know the meaning of place value for a decimal, write decimals in standard form.
2. Compare decimals.
3. Write decimals as fractions, and fractions as decimals,
4. Round decimals,

5. Add, subtract, multiply, divide decimals,
6. Evaluate expressions containing decimals,
7. Solve equations containing decimals, and
8. Understand the concept for square root.

CHAPTER 6: Ratio and Proportion

Upon completion, student must be able to:

1. Simplify ratios, rates,
2. Write and solve proportions, and
3. Use proportions for problem solving.

CHAPTER 7: Percent

Upon completion, student must be able to:

1. Understand the meaning of percent,
2. Perform conversions of percents, decimals, and fractions, and
3. Solve percent problems with percent equation, and with the percent proportions.

If time permits, selected topics from:

CHAPTER 8: Graphing & Introduction to Statistics

Upon completion, student must be able to.

1. Read circle graphs, pictographs, bar
2. Graph linear equations in two variables,
3. Find mean, median, and mode of data, and
4. Understand the basic principles of probability.

CHAPTER 9: Geometry and Measurement

Upon completion, student must be able to:

1. Identify lines segments, rays and angles,
2. Know classifications of angles,
3. Identify complementary and supplementary angles,
4. Identify and find all angles at two parallel lines and a transversal,
5. Convert units of measurement,
6. Find perimeter, area of some figures, and
7. Find volumes of some solids.

CHAPTER 10: Polynomials

Upon completion, student must be able to:

1. Add and subtract polynomials,
2. Multiply exponents, and
3. Multiply Polynomials.