

Math 095, Elementary Algebra 3 Credits

Instructor: Joan M. Casey (860)-501-1288, jcasey@trcc.commnet.edu

SPRING 2011, Saturday 9am – 11:45am, Room D122

Required Text and Materials:

Beginning Algebra, Fifth Edition, Elayn Martin-Gay, Prentice Hall.

Basic Scientific Calculator

Notebook (Bring to every class)

Grading Policy:

There will be 4 tests, each worth 20% of your grade.

There will be a Final Exam worth 20% of your grade

A letter grade will be given at the end of the semester; grade equivalents are as follows:

A 93 - 100 B+ 87 - 89 C+ 77 - 79 D+ 67 - 69

A- 90 – 92 B 83 – 86 C 73 – 76 D 60 – 66

B- 80 – 82 C- 70 – 72 F Below 60

Statement on Disabilities: If you are a student with a disability and believe you will need accommodations for this course, it is your responsibility to contact the Disabilities Counseling Service at 383-5240. To avoid any delay in the receipt of accommodations, you should contact the counselor as soon as possible.

College Withdrawal Policy: Students may withdraw, in writing at the Registrar's Office, for any reason until the end of the 10th week of classes (May 9). Last day to ADD/DROP with partial tuition refund: Feb. 2nd.

OTHER:

Attendance at EVERY class is expected.

If you will be absent on the day of a scheduled test, **please notify me PRIOR to the test** so that arrangements can be made. Tests that are missed, without my prior knowledge, cannot be made up.

NO CELLPHONES or TEXTING during class.

Students are alerted to any **school closings & delays** through the Three Rivers web site: www.trcc.commnet.edu.

TASC is the college's **free tutoring** and academic success center. Meeting with me is another option. I will be available 20 minutes prior to and 20 minutes beyond each regularly scheduled class.

Course Outcomes:

1. Evaluate algebraic expressions
2. Determining if a given number is a solution to an equation or an inequality
3. Determining if an ordered pair is a solution to a linear equation in 2 variables
4. Add, subtract, multiply, and divide real numbers and raise a real number to an integer power
5. Add, subtract, multiply, and divide Polynomials

6. Simplify, add, subtract, multiply, and divide Radicals
7. Rules for Exponents
8. Greatest Common Factor (factoring)
9. Factor by Grouping
10. Factor trinomials of the form $x^2 + bx + c$
11. Factor trinomials of the form $ax^2 + bx + c$
12. Factor Perfect Square Trinomials
13. Factor the Difference of Two Squares
14. Factor Completely
15. Converting between Scientific Notation and standard notation

16. Order of Operations (manipulation)
17. Properties of Real Numbers (manipulation)
18. Simplifying Algebraic Expressions (manipulation)

19. Graphing in a Rectangular Coordinate System
20. Graphing Linear Equations by plotting points, using intercepts, and using the Slope-Intercept form
- 21.** Graphing the solution to a Linear Inequality in one variable.
22. Graphing a System of Linear Equations in two variables
23. Rates of change (slopes)
24. Identifying Linear Equations (Linearity)
25. Solving Linear Inequalities in one variable
26. Finding the Equation of a Line (manipulation)
27. Solving Linear Equations in one variable
28. Solving formulas for a specified variable
29. Solving a System of Linear Equations in two variables (two methods)
30. Solving equations with degree 2 or greater by factoring
31. Two forms for the equation of a line (transforming back and forth)

32. Finding an unknown number word problem
33. Solving consecutive numbers (including odd and even) word problems
34. Solving dimension problems using geometric formulas
35. Solving Percent and Mixture problems
36. Solving table problems such as rate, time, and distance
37. Solving linear inequality problems
38. Solving linear equation in two variables problems
39. Solving System of 2 linear equations in 2 variables word problems
40. Solving factorable Quadratic Equation word problems