MAT095_Maurice_Sum12

<u>SYLLABUS</u>

MATH 095 Online - ELEMENTARY ALGEBRA

CRN 50038

SUMMER 2012

Final Exam:
Monday, July 30th, from 3:00-5:00 in room E 221
(picture identification is required)

Three Rivers Community College
574 New London Turnpike
Norwich, Connecticut 06360

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<u>COURSE DESCRIPTION</u>
This course extends the basic algebra skills acquired in MATH 075. The topics include: signed numbers, solving first-degree equations, exponents, polynomials, factoring, graphing, systems of linear equations, inequalities, radicals and scientific notation. (This course does not count towards the minimum requirements for graduation.

<u>PREREQUISITE</u>
Acceptable placement score or Math 075 with a "C" grade or better. You are allowed to use a calculator in this class.

MAT095 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

TEXTBOOK
Beginning Algebra by Elayn Martin-Gay (Fifth Edition)

Be sure to purchase MyMathLab student access kit either with the text or all by itself. If you choose to purchase the MyMathLab code alone, you can read the text online.
MyMathLab student access code is available at the bookstore or online when you click "register" @ www.coursecompass.com

COURSE ID : maurice29377

GRADING POLICY

Your Final Grade will be determined in the following manner:
- Fifty percent of your grade will be determined by your MyMathLab average (the result of your tests and homework done online). The quizzes (Practice Tests) will not affect your grade – they are for practice only.
- Fifty percent of your grade will be determined by your Final Exam which will be taken at Three Rivers Community College.
- IMPORTANT!!! You are allowed 2 hours for each test. Once you have started a test it must be completed with the 2 hour time limit.

PLEASE NOTE THAT A GRADE OF "C" OR BETTER IS REQUIRED TO TAKE MATH 137 (INTERMEDIATE ALGEBRA)

COLLEGE WITHDRAWAL POLICY
The last day to withdraw from class is July 25th 2012. Students wishing to withdraw must provide the following information to the Registrar's Office (860-892-5756): full name, address, date of birth, and instructor's name. Students who stop attending and fail to withdraw will receive a final grade of "F".

DISABILITIES STATEMENT
If you are a student with a disability and believe you will need accommodations for this class, 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. Please note that I cannot provide accommodations based upon disability until I have received an accommodation letter from the Disabilities Counselor. Your cooperation is appreciated.