

SYLLABUS – MAT095 Elementary Algebra Foundations – Spring 2014

CRN 10619, Section T15

- Mon., Wed., and Fri. 11:00– 11:50 a.m. in classroom D206
- Three Rivers Community College, 574 New London Tpke., Norwich, CT 06360
Main phone number: 860-215-9000

MRS. STEWART, Adjunct Instructor

- E-MAIL: mstewart@trcc.commnet.edu
- Available to work with students outside of class time during the following days and times:
 - 1) MWF from 10:30-10:55 a.m. in the Adjunct Faculty Office room D205(E)
 - 2) MWF from 12:00 noon – 12:55 p.m. in classroom D226
 - 3) Mon. and Wed. at 2 p.m. with advance notice, Fri. at 3 p.m. with advance notice
- VOICE MAIL: (860) _____, ext. _____ (Leave your name and a brief message.)

COURSE DESCRIPTION

This course extends the basic algebra skills acquired in MAT075. The topics include signed numbers, solving first-degree equations, exponents, polynomials, graphing, systems of linear equations, inequalities, radicals, and scientific notation. ***This course does not count towards the minimum requirements for graduation.***

Prerequisite for this course: MAT075 with a C grade or better, or, MAT090 with a grade of P, or, appropriate placement through multiple-measures assessment process.

Prerequisite for next course: For MAT135 or MAT123 a grade of C or better in this course. For MAT137 a grade of B- or better. For MAT137S a grade of C- or better.

REQUIRED TEXTBOOK

Elementary & Intermediate Algebra: Graphs & Model, 4th edition, Bittinger, © 2012, Pearson Education, ISBN: 9780321760210

NOTE: MyMathLab is optional and is NOT required.

SUPPLIES

- One (1) three-ring binder (tabbed dividers are optional)
- Pencils and erasers
- Paper for taking notes in class and for assignments
- One 6" or 12" ruler
- No calculators.

COURSE SCHEDULE, ASSIGNMENTS, and TEST DATES

Refer to the yellow handout. Place them in the front of your notebook for easy reference.

METHOD OF EVALUATION and GRADING SYSTEM

- **TESTS** 4 cumulative tests, each test is 15% of the course grade 60% of course grade
*No make-up tests. The student's grade on the subsequent cumulative test will be used for the missed test.
If a student misses the 4th test, the student's grade on the final exam will be used.*
- **BINDER/NOTEBOOK, ASSIGNMENTS, ATTENDANCE** 15% of course grade
*Keep all handouts, notes, assignments, practice tests, and tests in your three-ring binder.
Work on assignments (homework) regularly and seek assistance if the problems are not understood.
Binders and assignments will be reviewed three times during the semester.*

ATTENDANCE

Students should attend all classes, arrive for class on time, and remain for the duration of the class meeting. It is the student's responsibility to request any missed work or assignments before the next class. After the first week of classes, students who arrive late will be seated in the classroom at the discretion of the instructor. Students who consistently arrive late, leave class early, or walk in and out of class cause a distraction which results in a disruption of the class environment and the learning process. (See "Student Behavior" below.)

- **FINAL EXAM will be given on Friday, May 16** 25% of course grade
The final exam is cumulative, chapters 1-5, and mandatory. No makeup. No retake.

Your numeric grade for the course will correspond to the letter grade: 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), N (no basis for grade)

ACADEMIC INTEGRITY POLICY

At TRCC, we expect the highest standards of academic honesty. The Board of Trustees' Proscribed Conduct Policy prohibits cheating on examinations, unauthorized collaboration on assignments, unauthorized access to examinations or course materials, plagiarism. Each student is expected to demonstrate his/her knowledge of the subject matter on each in-class test, and the final exam. If a student is caught cheating on an in-class test or the final exam, the student will receive a grade of zero, F, and will not be allowed to make-up that work.

COLLEGE WITHDRAWAL POLICY

Monday, May 12 Last day to withdraw from classes. Withdraw at the Registrar's Office.

CLASSROOM POLICIES

- Be respectful toward each person.
- No food in the classroom. Beverages are allowed
- Electronic/digital devices must be turned off or silenced. These devices are not to be used in class since it causes distractions and disrupts the learning environment. When there are extenuating circumstances that require a student be available by such a device, the student must speak to the instructor prior to class, so that together they can arrive at an agreement.

- Student Behavior:

From the TRCC Student Handbook: *"The College has the right and responsibility to take appropriate action when a student's conduct directly and significantly interferes with the College's educational mission and the rights of others to pursue their educational objectives in an environment conducive to learning."*

Such action will, at minimum, be the dismissal of the student from the remainder of class that day, marked absent, and any graded work from that day will be graded zero, F, with no possibility to make-up that work.

All issues regarding student conduct will be referred to the Dean of Students, Campus Security, and the Chair of the Mathematics Department.

DISABILITIES STATEMENT

If you have a disability that may affect your progress in this course, please meet with a Disability Service Provider (DSP) as soon as possible. Please note: 1.) For academic adjustments, you will have to provide documentation of your disability to the DSP. 2.) Instructors cannot provide adjustments until you have delivered written authorization (from a DSP) to the instructor. 3.) Adjustments take effect when you deliver your written authorization to the instructor in person (provided there is adequate time for the instructor to make necessary arrangements). 4.) Adjustments do not apply to tests/assignments that were due prior to your delivering written authorization to your instructor in person.

You can make an appointment with a TRCC Disabilities Service Provider (DSP)

Matt Liscum, (860) 215-9265, Room A-124

• Physical Disabilities, Sensory Disabilities, Medical Disabilities, Mental Health Disabilities

Chris Scarborough (part time), (860) 215-9289, Room A-119D

• Learning Disabilities, ADD, Autism

SCHOOL/ CLASS CANCELLATION POLICY

- Class cancelled by Mrs. Stewart: A notice will be placed on the classroom door. If time permits, students may be notified by e-mail.
- Classes cancelled by TRCC: Announcements on local radio and Conn. TV stations, or visit the college's home web page www.trcc.commnet.edu., or call the college's main phone number 860-215-9000 and follow the prompts. Notification will also be made by MyCommNet Alert:

MyCommNet Alert is a system that sends text messages and emails to anyone signed up in the event of a campus emergency. Additionally, TRCC sends messages when the college is delayed or closed due to weather. All students are encouraged to sign up for myCommNet Alert. A tutorial is available on the Educational Technology and Distance Learning Students page of the web site:

http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html

FREE TUTORING at TASC (Tutoring and Academic Success Center)

- TASC is located in room C-117, next to the Library (Learning Resource Center).
- Weekly appointments or walk-in help
- Computer Lab
- Videos, textbooks and more!

MAT095 COURSE OUTCOMES (by TRCC Math Department)

Identify and distinguish between rational and irrational numbers.

Use rational approximations of irrational numbers.

Interpret parts of an expression and evaluate expressions for given value(s)

Add, subtract, and multiply polynomials. Divide polynomials by a monomial

Construct and interpret equations as two expressions set equal to each other

Manipulate formulas to highlight a quantity of interest

Know and apply the properties of integer exponents to generate equivalent numerical expressions

Use square root symbols to represent solutions to equations of the form $x^2 = p$

Evaluate square roots of perfect squares

Perform operations with numbers expressed in scientific notation

Solve linear equations and inequalities in one variable

Create linear equations and inequalities in one variable and use them to solve real world applications

Recognize examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions

Interpret the rate and unit rate as the slope of the graph

Derive the equation $y = mx + b$

Identify parallel and perpendicular lines based on their slopes

Graph a linear equation in two variables

Construct a linear equation to model a linear relationship between two quantities. values, including reading these from a table or graph

Construct linear equations given a graph, a description of a relationship, or two input-output pairs (include reading these from a table) using point-slope form and slope-intercept form

Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs

Solve systems of two linear equations in two variables algebraically

Recognize systems of linear equations with one solution, infinitely many solutions, or no solutions

Solve real-world problems leading to two linear equations in two variables

Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line

Use functions to model linear relationships between quantities

Use function notation. Evaluate functions for inputs in their domains

Apply geometrical formulas for two and three-dimensional figures such as rectangles, circles, rectangular solids, cylinders, spheres, etc.

Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two dimensions