

SYLLABUS – MAT095 Elem. Algebra Foundations – Fall 2010

COURSE DAYS, TIMES, LOCATION

- CRN 31512, T1
- Room E225, Tuesday and Thursday, 11:00 a.m. – 12:15 p.m.
- Three Rivers Community College, 574 New London Turnpike, Norwich, CT 06360

ADJUNCT INSTRUCTOR: Mrs. Mary Anne Stewart

- Office Hours: Tuesdays and Thursdays, 12:20 p.m. – 1:00 p.m., Adjunct Office Room D-205 (E)
- Voice Mail: (860) 886-0177, ext. 2114 (leave brief message)
- E-Mail: mstewart@trcc.commnet.edu

COURSE DESCRIPTION

This course extends the basic algebra skills acquired in MAT075, Prealgebra. 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.** Prerequisite: Acceptable placement score or MAT075 with a “C#” grade or better. A thorough knowledge of basic math skills is needed for this course.

REQUIRED TEXT

Beginning Algebra, 5th ed., Martin-Gay, ©2005 Pearson Education, Inc., ISBN:9780321600523

SUPPLIES

- One (1) three-ring notebook and tabbed dividers or similar to create sections in your notebook
- Pencils and erasers
- Paper for homework and taking notes in class
- One 6” or 12” ruler
- NO calculators

COURSE OUTLINE, SCHEDULE, ASSIGNMENTS, and DUE DATES

See attached sheets. Place these at the front of your notebook and refer to them for each class.

ASSIGNMENTS

Students are expected to work on assignments regularly and to seek assistance if the problems are not understood. All work should be kept in a notebook which may be reviewed by the instructor.

METHOD OF EVALUATION and GRADING SYSTEM

- **3 in-class tests, 20% each.** No make-up tests. The student’s final exam grade will be used in place of any missed tests.
- **3 practice tests, 5% each.** Practice tests allow students to continue their preparation for the in-class test as well as the final exam. Practice tests will be due on or before the day of the in-class test. No partial credit. Ten points deducted if handed in late.
- **Final exam, 25%.** The final exam is mandatory and cumulative, chapters 1 through 6. The final exam will be given on the scheduled date. No make-up, no re-take.

These letter grades and corresponding numerical grades will be used for tests, final exam, and course 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)

ACADEMIC INTEGRITY POLICY

Each student is expected to demonstrate his/her knowledge of the subject matter on each test and the final exam. If a student is caught cheating on a test or the final exam, he/she will receive a grade of zero, F, and will not be allowed to make-up that test or final exam.

COLLEGE WITHDRAWAL POLICY

Dec. 9 Last day to withdraw from classes (Withdraw at the Registrar's Office)

ATTENDANCE

Students are expected to attend all classes, to arrive for class on time, and to remain for the duration of the class meeting. It is the student's responsibility to request any missed work, assignments, or materials before the next class. Students who are consistently tardy, leave class early, and/or walk in and out of class are a distraction to the instructor and the other students. This results in a disruption of the class and the learning process. (See "Student Behavior " below.)

After the second week of classes, students who arrive late will be seated in the classroom at the discretion of the instructor.

DISABILITIES STATEMENT

Students with hidden or visible disabilities who may require special accommodations and support services are encouraged to notify the instructor and Chris Scarborough, (860) 892-5751, who is coordinating services to students with disabilities, during the first two weeks of class.

RULES of CONDUCT in CLASS

- Respect each person.
- No food in the classroom.
- Electronic/digital devices: Cell phones, beepers and similar devices must be turned off or silenced during class. These devices are NOT to be used in class. 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: "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." - from the TRCC Student Handbook
Such action will, at minimum, be the removal of the student from the remainder of that day's class and any graded work from that day will be graded zero, F, with no possibility to make-up that work.

CLASS CANCELLATION POLICY

If class is cancelled by the school, pay attention to radio and TV announcements, call the college's main phone number 860-886-0177, or visit the college's home web page www.trcc.commnet.edu.

If class is cancelled by the instructor, a notice will be placed on the classroom door. If time permits, students may be notified by a message on the instructor's voice mail, by email, or by phone.

COURSE CONTENT AND OUTCOMES

CHAPTER 1: Review of Real Numbers

Upon completion, student must be able to:

1. Evaluate variable expressions and equations,
2. Add, subtract, multiply, and divide real numbers,
3. Understand properties of real numbers, and
4. Read graphs.

CHAPTER 2: Equations, Inequalities, and Problem Solving

Upon completion, student must be able to:

1. Simplify algebraic expressions,
2. Apply the addition and multiplication properties of equality,
3. Solve linear equations,
4. Begin problem solving,
5. Work with formulas and problem solving, and
6. Solve linear inequalities.

CHAPTER 3: Graphing

Upon completion, student must be able to:

1. Understand the rectangular coordinate system,
2. Graph linear equations,
3. Plot intercepts,
4. Determine slope and rate of change, and
5. Understand and apply slope-intercept form and point-slope form.

CHAPTER 4: Solving Systems of Linear Equations and Inequalities

Upon completion, student must be able to:

1. Solve systems of linear equations by graphing, substitution, and addition. and
2. Use systems of linear equations to solve problems.

CHAPTER 5: Exponents and Polynomials

Upon completion, student must be able to:

1. Evaluate exponential expressions,
2. Add, subtract, multiply, and divide polynomials, and
3. Work with special products, negative exponents, and scientific notation.

CHAPTER 6: Rational Expressions

Upon completion, student must be able to:

1. Use and apply the greatest common factor and factor by grouping,
2. Factor trinomials and binomials,
3. Solve quadratic equations by factoring, and
4. Solve problems.

CHAPTER 8: Roots and Radicals

Upon completion, student must be able to:

1. Define and simplify radicals, and
2. Add, subtract, multiply, and divide radicals.
3. Rationalize denominators.