

Syllabus

Three Rivers Community College

Mat 137 - Intermediate Algebra

Fall 2009

Course Registration Number (CRN) - 30180.109311

M, W, F 10:00-10:50 am, Room D203

Instructor:

Andrew N. Smith

Office Hours: By Appointment, with location to be determined

Email: asmith@trcc.comnet.edu

Home Phone: 860-367-0713

Course Description:

A graphing calculator is required. Instructor will use a Texas Instrument calculator (TI83). This course continues the development of algebraic skills and concepts. The topics include linear equations, functions and graphs, applications of systems of equations, inequalities, rational expressions and equations, operations on radicals and rational exponents, quadratic equations, exponential and logarithmic functions.

Prerequisites:

Prerequisites: Acceptable placement score or MAT 095 with a "C" grade or better.

Required Material:

The required text is Intermediate Algebra: A Graphing Approach, 4th Ed., Elayn Martin-Gay and Margaret (Peg) Greene, Pearson Prentice Hall, 2009.

Attendance:

Attendance in classes is strongly recommended. *I will teach a class only once*; you are responsible for getting the class notes, homework, and any other assignments from another student and completing that work by the next week after any missed class. Also, short unannounced quizzes may be given and they cannot be made up.

Attendance at exams is mandatory. You will be informed of the dates of tests at least one week in advance. Make-up exams may be given *with my prior consent*. If you must miss an exam, please speak with me before the date of the exam so that arrangements can be made.

course of your academic career, present only your own best work; clearly document the sources of the material you use from others; and act at all times with honor. A full copy of the college's academic integrity policy is in the school's catalog and in the student handbook.

Resources:

TASC (the combined Tutoring Center and Writing Center) has relocated to temporary quarters on the new consolidated campus. We are currently located in temporary quarters in Rm. D-115 (the old CAD lab) until the new Tutoring/Writing Center opens in Rm. C-117 (planned for February).

TASC provides free **one-to-one or group tutoring** in math as well as in many other subject areas. TASC also has **textbooks** (both old and current), **videotapes**, and many **handouts** available for student use. Also, TASC's portion of the school's website has many links to other **online resources**; go to the TASC homepage at http://www.trcc.commnet.edu/ed_resources/tasc/index.htm and follow the link to "Online Resources."

One of your greatest resources is each other. I encourage you to get to know your classmates and **exchange contact information**.

Cell Phone Use:

Please turn off the ringer on all cell phones/pagers before the start of each class. If you have a situation where you absolutely must be able to take a call, please notify me before class.

Course Outline:

We will cover the following sections of the text:

Chapter 1 Real Numbers, Algebraic Expressions, and Equations

- 1.5 Solving Linear Equations Algebraically
- 1.6 An Introduction to Problem Solving
- 1.8 Formulas and Problem Solving

Trigonometry handout

Chapter 2 Graphs and Functions

- 2.1 Graphing Equations
- 2.2 Introduction to Functions
- 2.3 Graphing Linear Functions
- 2.4 The Slope of a Line
- 2.5 Equations of Lines

Chapter 3 Equations and Inequalities

- 3.1 Solving Linear Equations Graphically

TENTATIVE HOMEWORK ASSIGNMENTS (* eoo - every other odd)

- 1.5 1 - 33 odd, 39,41, 47 - 67 odd
- 1.6 11, 13, 33-35, 41, 43
- 1.7 1 - 11 odd
- 1.8 1-23 odd
- 2.2 7 - 17 odd, 23 - 35 odd
- 2.4 1 - 69 eoo
- 2.5 1 - 70 eoo
- 3.1 1 - 5, 11, 13
- 3.2 23 - 49 odd, 55 - 67 odd
- 3.3 13 - 55 eoo

- 4.1 19-51 odd, 59, 63
- 4.2 5, 9,19
- 4.3 1, 5, 7, 11, 17 - 19

- 5.1 1 - 91 odd
- 5.2 1 - 67 odd
- 5.3 37 - 75 odd
- 5.4 1 - 39 odd
- 5.5 1 - 65 odd
- 5.6 1 - 33 odd, 43 - 87 odd
- 5.7 1 - 65 odd
- Pg. 384 - 387 odd, *omit 7*
- 5.8 1 - 67 eoo, 77

- 6.1 1 - 53 odd
- 6.2 1 - 9 odd, 23 - 65 odd
- 6.3 1 - 31 odd
- 6.5 1 - 41 odd
- 6.6 1 - 13 odd, 31, 33, 39, 45

- 7.1 1 - 41 odd, 55 - 81 odd
- 7.2 1 - 39 odd, 43 - 89 odd
- 7.3 1 - 27 odd
- 7.6 1 - 27 odd, 43, 47, 59, 61

- 8.1 1 - 13 odd, 17, 23, 27 - 33 odd, 35 - 55 odd
- 8.2 1 - 11 odd
- 8.3 1 - 13 odd, 19 - 27 odd
- 8.5 1 - 53 eoo
- 8.6 13 - 43 odd

- 9.1 15 - 19 odd
- 9.2 23 - 33 odd
- 9.3 21 - 35
- 9.4 1 - 61 odd
- 9.5 1 - 31 odd
- 9.6 17 - 31 odd, 51 - 59 odd
- 9.7 1 - 39 odd