Syllabus

Three Rivers Community College
MAT 075 – Pre-Algebra
Fall 2009

Course Registration Number (CRN) – 31072 Sec. T15
M, W 2:30-3:45 pm, Room D221

Instructor:

Roxanne N. Tisch
Office: C248
Office Hours: Monday 1:00 – 2:00 pm
Tuesday 10:45 – 11:45 am
Wednesday 1:00 – 2:00 pm
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Course Description:

This course focuses on basic arithmetic and pre-algebra skills. Topics include: whole numbers, fractions, decimal numbers, proportions, percents, perimeter, area, volume, signed numbers, algebraic expressions and equations. Skills acquired in this course will be useful in college and everyday life. In addition, many fields of study today require the knowledge of algebra. This course will prepare you for basic algebra.

Required Materials:

- The required text is PreAlgebra 5th Ed., Elayn Martin-Gay, Pearson Prentice Hall, 2008
- Access Kit for MyMathLab software
- Notebook or binder

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.

Grading Policy:

Your grade will be based on the following items.

- Math Autobiography – Worth 40 points.

- Homework (MyMathLab) assignments – The final homework grade will be weighted as one test grade (100 points). You will receive a 100% for the Homework grade if ALL of the MyMathLab assignments are completed to the level of 85% or better.
- Mad Minutes – Mad minutes are short answer questions or exercises at the end of class. We will not necessarily have one everyday. Mad minutes are graded based on participation not the correctness of the answer. The final mad minute grade will be worth 20 points.
- Quizzes and additional assignments – Throughout the semester you may have quizzes in class or on MyMathLab. You may also receive assignments in class that I will ask you to hand in. These assignments will account for 50 points.
- Four in-class tests – Each in class test will be worth 100 points.
- Final Exam – The comprehensive final exam is worth 100 points.
- Final Reflection – Worth 40 points.

The final grade will be determined by adding the grades on the autobiography, tests, exam and reflection, and the averages for homework, mad minutes and quizzes, and dividing by 7.5. Letter grade equivalents are listed below:

Grade	Grade Points	Quality Points
A	93-100	4.0
A-	90-92	3.7
B+	87-89	3.3
B	83-86	3.0
B-	80-82	2.7
C+	77-79	2.3
C	73-76	2.0
C-	70-72	1.7
D+	67-69	1.3
D	63-66	1.0
D-	60-62	0.7
F	Below 60	0.0

The prerequisite for moving on to the next course (MAT 095 Elementary Algebra) is a C or better in this course.

Homework:

All homework will be completed using MyMathLab. The code for this class is "tisch05798". Homework will be assigned daily. I will be checking regularly to make sure you are keeping up with the homework. It is in your best interest to do at least the assigned problems, if not more. The more you do any math, the easier it becomes.

College Withdrawal Policy:

You may withdraw from this class any time up to and including December 9 and you will receive a W grade on your transcript. However, you must complete a withdrawal form in the Registrar's Office at the time of withdrawal; *if you merely stop attending classes you will be assigned a grade of F*. Any eligibility for refund of tuition is based on the date that the registrar receives the withdrawal.

Disabilities Statement:

If you have a disability that may require classroom or test-taking modifications, please see me as soon as possible so arrangements can be made. If you have not already done so, please contact the Learning Specialist, Chris Scarborough, at 892-5751.

Academic Integrity:

Academic integrity is essential to a useful education. Failure to act with academic integrity severely limits a person's ability to succeed in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. In this class and in the 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) is located in room. C-117.

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 Whole Numbers and Introduction to Algebra

- 1.7 Exponents and Order of Operations
- 1.8 Introduction to Variables, Algebraic Expressions, and Equations

Chapter 2 Integers and Introduction to Solving Equations

- 2.1 Introduction to Integers
- 2.2 Adding Integers
- 2.3 Subtracting Integers
- 2.4 Multiplying and Dividing Integers
- 2.5 Order of Operations
- 2.6 Solving Equations: The Addition and Multiplication Properties

Chapter 3 Solving Equations and Problem Solving

- 3.1 Simplifying Algebraic Expressions
- 3.2 Solving Equations: Review of the Addition and
- 3.3 Solving Linear Equations in One Variable
- 3.4 Linear Equations in One Variable and Problem Solving

Chapter 4 Fractions and Mixed Numbers

- 4.1 Introduction to Fractions and Mixed Numbers
- 4.2 Factors and Simplest Form
- 4.3 Multiplying and Dividing Fractions
- 4.4 Adding and Subtracting Like Fractions, Least Common
- 4.5 Adding and Subtracting Unlike Fractions
- 4.6 Complex Fractions and Review of Order of Operations
- 4.7 Operations on Mixed Numbers
- 4.8 Solving Equations Containing Fractions

Chapter 5 Decimals

- 5.1 Introduction to Decimals
- 5.2 Adding and Subtracting Decimals
- 5.3 Multiplying Decimals and Circumference of a Circle
- 5.4 Dividing Decimals
- 5.5 Fractions, Decimals, and Order of Operations
- 5.6 Equations Containing Decimals

Chapter 6 Ratio, Proportion, and Triangle Applications

- 6.1 Ratios and Rates
- 6.2 Proportions
- 6.3 Proportions and Problem Solving
- 6.4 Square Roots and the Pythagorean Theorem

Chapter 7 Percent

- 7.1 Percents, Decimals, and Fractions
- 7.2 Solving Percent Problems with Equations
- 7.3 Solving Percent Problems with Proportions

7.4 Application of Percent
7.5 Percent and Problem Solving: Sales Tax, Commission,And Discount
7.6 Percent and Problem Solving: Interest

Chapter 8 Graphing and Introduction to Statistics

8.3 The Rectangular Coordinate System and Paired Data
Integrated Review - Reading Graphs
8.4 Graphing Linear Equations in Two Variables

Chapter 9 Geometry and Measurement (Selected topics)

9.1 Lines and Angles
9.2 Perimeter
9.3 Area, Volume, and Surface Area
9.4 Linear Measurement