MAT033 Fall 2017
Federal Correctional Institution Fort Dix

Welcome to MAT033, Pre-Algebra. This is a 4-credit course which prepares you for the MAT100-level courses you need for your degree. The course grade will appear on your transcript from Mercer County Community College. The course covers the basics of practical arithmetic and geometry - numbers, decimals and percents, fractions, exponents, the x-y plane, graphing, and geometry. We will also introduce the fundamental algebraic concept of a *variable*, and use it in most lectures.

Logistics and Assignments

Each week there will be two classes on Monday and Wednesday at 6-8 pm. Each new subject will be taught by a lecture followed by a worksheet session in which the class works on a set of problems based on the material from the lecture. There will be two review sessions, each of which will have a practice exam that you will do and we will go over, in class. The textbook is "Pre-Algebra" by Lial and Hestwood, Third Edition. You will be assigned readings and problems for practice from the book.

We hand out lecture notes for each class. Homework will be given out at each lecture and collected at the end of the next lecture. There will be two exams: a Midterm and a Final.

We will return your graded homeworks and exams, together with solution sets, one week after they are handed in. You are encouraged to work and study together, but the homework you turn in must be your own work.

Grading

Grades will be assigned for homework (40%) and exams (60%).

Class Schedule

Class	Day	Date	Topic	Reading	HW due
1	Mon	09/25	Lecture 1: Integers, factoring		
2	Wed	09/27	Worksheet 1		
3	Mon	10/2	Lecture 2: Fractions I		HW1
4	Wed	10/4	Worksheet 2		
-	Mon	10/9	No class - Día de la Raza		
5	Wed	10/11	Lecture 3: Fractions II		HW2
6	Mon	10/16	Worksheet 3		
7	Wed	10/18	Lecture 4: Fractions III, decimals & percents		HW3
8	Mon	10/23	Worksheet 4		
9	Wed	10/25	Practice Midterm		HW4
10	Mon	10/30	Midterm		
11	Wed	11/1	Lecture 5: Solving Equations I		
12	Mon	11/6	Worksheet 5		
13	Wed	11/8	Lecture 6: Solving Equations II		HW5
14	Mon	11/13	Worksheet 6		
15	Wed	11/15	Lecture 7: Powers, sci notation, metric		HW6
16	Mon	11/20	Worksheet 7		
-	Wed	11/22	Thanksgiving - no class or makeup/review		
17	Mon	11/27	Lecture 8: Graphing		HW7
18	Wed	11/29	Worksheet 8		
19	Mon	12/4	Lecture 9: Proportions and Geometry		HW8
20	Wed	12/6	Worksheet 9		
21	Mon	12/11	Practice Final; Review		HW9
22	Wed	12/13	Final exam		