Math 0303 – Intermediate Algebra
Fall 2023

Professor: Dr. David Milan　　　　　**Office**: RBN 4006

Office Hours: 1:15-2:15pm MWF, or by appointment.

Email: dmilan@uttyler.edu　　　　　**Office Phone**: (903)565-5839 (email is best)

Web: class page on Canvas　　　　**Class Meeting Time**: 2:30-3:25 MWF

Required Text: None.

Prerequisites: This course is open to TSI-liable students.

Course Description: A study of the real number system, fractions, decimals, absolute values, percentages, comparisons and proportional reasoning, signed numbers, solving linear equations and inequalities, simplifying expressions and functions.

Student Learning Outcomes: Upon completion of this course, students should be able to do the following:
- Demonstrate an understanding of the real number system by doing arithmetic with real numbers, graphing numbers on the real number line, simplifying algebraic expressions using properties of real numbers, and by constructing algebraic expressions.
- Solve linear equations and inequalities, find equations of lines, and graph linear equations and inequalities.
- Evaluate and graph functions and be able to analyze the graph of a function.
- Demonstrate knowledge of exponent and radical rules by simplifying and rewriting algebraic expressions involving exponents and radicals.

Course Evaluation: This course is not credit-bearing. To pass the class a student must pass an Intermediate Algebra exam with a score of 70% or greater.

Important Dates:
September 1: Census date: date to withdraw without penalty, grade replacement deadline.
October 30: Last day to withdraw.

A note about this course:

Math 0303 will be taught on a 5-week cycle. After the first cycle, students will be given a test. If a student earns a passing grade of 70% or above, the student has completed the course. If not, the student will repeat the 5-week cycle and have another chance to take the exam. In total, each student will have 3 opportunities to pass the exam.

Test Dates:

Test 1 (first attempt): Friday, September 22 (in class)
Test 2 (second attempt): Friday, October 27 (in class)
Test 3 (third attempt): Wednesday, December 6 at 2:45pm

Course Material:

Here are the topics covered in this course during each 5-week cycle. The daily schedule is approximate and may change during the semester.

Week 1:
- 1.1 The Real Numbers
- 1.2 Operations, Percentages, and Decimals
- 1.3 Fractions

Week 2:
- 2.1 Lines
- 2.2 Distance
- 2.3 Absolute Value Equations

Week 3:
- 3.1 Inequalities
- 3.2 Word Problems
- 3.3 More Word Problems

Week 4:
- 4.1 Polynomials
- 4.2 Factorization
- 4.3 Solving Quadratic Equations

Week 5:
- 5.1 Exponents and Radicals
- Test

Calculator Policy: No calculators will be allowed in this course.

Policies: See https://www.uttyler.edu/academic-affairs/files/syllabuspolicy.pdf for these important University policies: UT Tyler Honor code, student rights and responsibilities, campus carry, UT Tyler a tobacco-free university, grade replacement and forgiveness, state-mandated course drop policy, student accessibility and resources, student absence for university-sponsored events, social security and FERPA, emergency exits and evacuation, and student standards of academic conduct.