

# Intermediate Algebra – Fall 2023

## Math 0303.004

**Instructor:** Fara Meza

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**Class Time:** T, Th 12:30 pm -1:50 pm

**Office Hours:** MW 2:30-3:20 pm any other time by appointment

**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.

**Course Prerequisites:** TSI-liable in math.

**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.
- Simplify and factor algebraic expressions involving polynomials and rational functions.

**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.

**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.

### CLASS SCHEDULE

DATE	
Tuesday AUGUST 22	First 5-weeks cycle for all students registered in this class.
Tuesday SEPT 19	EXAM 1 (1 <sup>ST</sup> attempt) Mandatory for all students. (in class)
Tuesday SEPT 26	Second weeks cycle start for those students who do not pass the exam 1(first attempt) with a satisfactory grade (70% or better).
Tuesday OCT 24	EXAM 2 (2 <sup>nd</sup> attempt). (In Class)

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Tuesday OCT 31

Third 5-weeks cycle start for those students who do not pass the exam 2 (second attempt) with a satisfactory grade (70% or better).

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DECEMBER 5<sup>TH</sup>

EXAM 3 (3<sup>RD</sup> attempt)

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**Attendance:** Make sure you attend class every day is very important for your success.

### **Course Material:**

Here are the topics covered in this course during each 5-week cycle.

- 01 Real numbers (basic operations)
- 02 Real line
- 03 Priority of operations
- 04 Percentage and decimals
- 05 Fractions (basic Operations)
- 06 Equation of the line (slope, y-intercept) and Graph
- 07 Midpoint, Distance, slope
- 08 Parallel and Perpendicular lines
- 09 Solving simple equations.
- 10 Absolute value equations
- 11 Inequalities
- 12 Absolute value and inequalities word problems
- 13 Polynomials operations
- 14 Factorization
- 15 Solving Quadratic equations.
- 16 Exponents and Radicals

### **Classroom Policy**

Please be respectful of the students around you at all times. This means that you should turn your cellular phones' ringers off, put your MP3 player away, and keep the classroom clear of distractions like unnecessary talking. Also, make sure you show up to class on time and stay the whole time.

*University Policies* For University policies concerning Students' Rights and Responsibilities, Grade Replacement/Forgiveness, State-Mandated Course Drop Policy, Disability Services, Student Absence due to Religious Observance, Student Absence for University Sponsored Events and Activities, and the Social Security and FERPA Statement please see:

<http://www.uttyler.edu/academicaaffairs/files/syllabuspolicy.pdf>