

# Intermediate Algebra – Spring 2025

## Math 0303.001

**Instructor:** Fara Meza

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**Class Time:** MWF 11:15 am -12:10 pm

**Office Hours:** Tuesday 8:20- 9:20 am and 1:00- 2:00 pm Thursday 8:20- 9:20 am. 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 get credit for 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 get credit for the class.

### CLASS SCHEDULE

DATE	
Monday Jan. 13	First 5-weeks cycle for all students registered in this class.
Monday Jan. 20	Holiday
Wednesday Feb. 12	EXAM 1 (1 <sup>ST</sup> attempt) Mandatory for all students. (in class)

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Monday Feb. 17	Second weeks cycle start for those students who do not pass the exam 1(first attempt) with a satisfactory grade (70% or better).
March 17 to March 21	Spring break
Wednesday March 26	EXAM 2 (2 <sup>nd</sup> attempt). (In Class)
Monday March 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).
Monday April 28	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 Polynomials operations
- 13 Factorization
- 14 Solving Quadratic equations.
- 15 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, 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.

### **AI is not permitted in this course at all**

I expect all work students submit for this course to be their own. Doing your own work, without human or artificial intelligence assistance, is best for your efforts in mastering course learning objectives. For this course, I expressly forbid using ChatGPT or any other artificial intelligence (AI)

tools for any stages of the work process, including brainstorming. Deviations from these guidelines will be considered a violation of UT Tyler's Honor Code and academic honesty values.

*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/academicaffairs/files/syllabuspolicy.pdf>