

**Global High School
Dual Credit
UT Tyler**

Course Syllabus

Math 1314

Fall 2026

College Algebra

Instructor: Leslie Stice

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Office Hours: Tuesday/Thursday 9:25-10:10, 11:00-11:45

ACGM Description:

Math 1314

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

Prerequisites: Meet TSI college-readiness standard for Mathematics; or equivalent

Introduction and Purpose:

This course is meant both as a terminal math course and to prepare students for more advanced topics in mathematics.

Instructional Materials:

Pearson MyLab Math

Supplies: pencils, notebook, and TI 84 calculator

Student Learning Outcomes:

By the end of this course, the successful student should be able to

- Demonstrate an understanding of functions by graphing and analyzing functions, evaluating functions at specific real numbers and at variable values, computing new functions from old functions through algebraic operations on functions, and using functions as models of real-world phenomena.

- Solve a wide variety of equations and inequalities, including linear, quadratic, polynomial, rational, exponential, and logarithmic equations as well as polynomial and rational inequalities.
- Apply the Fundamental Theorem of Algebra, Rational Root Test, the Factor Theorem, and synthetic division to factor polynomials, find their zeroes, and to graph polynomials.
- Demonstrate an understanding of inverse functions by determining when the inverse of a function exists, finding the inverse function, and verifying when two functions are inverses of each other. Further, the student should be able to recognize many common inverse function pairs and take advantage of these pairs for the purpose of simplification of expressions and equations.

Methods of Evaluations:

Homework (on My Math Lab) 20%

Tests (in class) 60%

Final Exam 20%

Class policies:

Regular attendance at all class meetings is expected. Disruptions in class will not be tolerated. This is a college course, therefore even if you miss class, you are responsible for all things that took place in class. Homework is due the week after we do it in class. Late work is 10% off per day it is late. If you miss a Test then you will make it up the next class. Attendance is required. If you miss more than two weeks then you will be dropped from the course.

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