

**Global High School  
Dual Credit  
UT Tyler**

**Course Syllabus**

Math 1314

Fall 2026

College Algebra

**Instructor:** Nicholas Asirvadam

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**Tutorials:**

M-F 8am-8:40am

Advisory

After school on Tuesdays (sometimes other days as well)

**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

**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) 15%

Quizzes (in class) 15%

Tests (in class) 50%

Final Exam 20%

### **Class policies:**

Regular attendance at all class meetings is expected. Be respectful of everyone, pay attention, and keep the class disruption free. If you miss class, you are responsible for everything that took place in class. Homework for each section is due on Sunday night after instruction, unless the topic is introduced on a Friday. Each chapter will have a non-comprehensive exam, but the final exam will be comprehensive.

### **Tentative Schedule (May be adjusted to fit the needs of the class):**

|                           |                       |
|---------------------------|-----------------------|
| Chapter 1 (1.1-1.6)       | Weeks 1-2             |
| Chapter 2 (2.1-2.5)       | Weeks 3-4             |
| Chapter 3 (3.1-3.5)       | Weeks 5-7             |
| Chapter 4 (4.1-4.5)       | Weeks 8-10            |
| Chapter 5 (5.1-5.6)       | Weeks 11-13           |
| Chapter 9 (9.3, 9.4, 9.7) | Weeks 14-15           |
| Final Exam                | Week of December 7-11 |

**AI Policy**

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code.

Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased.

Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

For this course, AI will not be permitted unless specifically discussed with the instructor.