

**Global High School
Dual Credit
UT Tyler**

Course Syllabus

Math 2413

Fall 2026

Calculus

Instructor: Leslie Stice

Contact: Email lstice@wisd.org

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

ACGM Description:

This course is a study of limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Prerequisites: Meet TSI college-readiness standard for Mathematics; or equivalent. Pre-cal Math 2412

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:

Essential Calculus; Early Transcendentals, by James Stewart, Second edition

Supplies: pencils, notebook, and TI 84 calculator

Student Learning Outcomes

Upon completion of this course, students should be able to do the following:

- Understanding properties and behavior of important types of functions
- Calculating and interpreting limits of functions
- Calculating and interpreting derivatives of functions
- Understanding the meaning of the derivative in applications

- Use derivatives to solve optimization problems and other applications
- Using derivatives to find graphs of functions and vice versa
- Calculating and interpreting integrals of simple functions

Methods of Evaluations:

Homework (from book) 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 day of your Test at 8:40am. If you cheat, you will receive a zero on that assignment. Late work is not accepted. If you miss a Test you will make it up the next class or the class before. Attendance is mandatory. If you miss more than two weeks of class then you will be dropped.

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