

Precalculus, Mathematics 2312, Section 008
Spring 2026

Instructor: Bryan Barrios

Office: Math Learning Center

Email: bbarrios@uttyler.edu

Course Schedule: Mon/Wed: 4:05pm - 5:30pm, **RBN 4034**

Office hours:

By appointment

Text:

Precalculus, OpenStax, J. Abramson.

- Free online at: openstax.org/details/books/precalculus
- Free pdf: bit.ly/3eqhvWA
- Buy print version: amzn.to/3vbGC6i

Course Description: Topics include algebraic functions and their graphs, exponential and logarithmic functions, trigonometric functions and identities, two and three dimensional analytical geometry.

Course Prerequisites: Appropriate score on ACT, SAT, or TSI.

Student Learning Outcomes: By the end of the course, successful students should be able to:

- Develop analytical reasoning to solve algebraic problems such as finding the solutions to polynomial, rational, exponential, logarithmic, and trigonometric equations, as well as finding inverse functions.
- Represent trigonometric functions by drawing relevant pictures on the unit circle, by writing the correct trigonometric definitions, and by verbal description.
- Demonstrate a critical 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, and applying known theory such as the Factor Theorem to factor polynomials and find their zeros.

Required Materials: N/A

Grading: Your final grade will be no more harsh than the following scale.

Percentages

- 100 - 85, A
- below 85 - 70, B
- below 70 - 55, C
- below 55 - 50, D
- below 50, F

The breakdown of your final course grade into categories is given below.

Notes: 10%

Quizzes: 15%

Midterm exams: 50% total

Final exam: 25%

If you have any questions about the grading of a particular quiz or exam, you must contact me no more than one week after the day I return the graded assignment in class, whether you are present during that class or not.

Attendance: It is your responsibility to attend class. Attendance is not mandatory, but it affects eligibility for a grade curve if I determine it towards the end of the course. Among other things, coming to class on time and prepared. Before class begins, you should turn off cell phones and any other electronic devices. Students are responsible for all announcements made during lecture.

Quizzes: There will be quizzes every Wednesday. Quizzes will only consist of material given the week before. If class was missed, and the excuse is valid, then you have up to a week to take the quiz outside of class. After that week, it will be an automatic zero. **I will drop the lowest 3 quiz grades**

Notes: Upload notes taken in class per lecture day. It does not have to be a **exact** copy of my lecture but it need to show that you are following the material. It's a zero for any notes past the given due date. **I will drop the lowest 3 notes grades**

Exams: There will be 3 midterm exams and 1 final exam. If class was missed, and the excuse is valid, then you have up to a week to take the exam outside of class. After that week it will be an automatic zero. **I will replace the lowest exam grade with the final if it's higher.**

Final Assessment: TBA

Cell Phones: Just please silence your phones

Calculators: You are not required to bring a calculator for use on quizzes and exams. The use of graphing calculators and other electronic devices, including cell phones, during exams is strictly prohibited, so study accordingly. If you have another calculator model that you would like to use, you must have it approved by me before using it while completing quizzes/exams.

Absences: Make-ups for **documented** absences that are **required** as part of a UT Tyler obligation (e.g. athletes participating in an event, students participating in a debate contest, etc.) or for religious observation will be granted. For all make-ups of this type, prior notification of at least one week and documentation are required. Other make-ups are granted only in extreme cases and at the sole discretion of the

instructor. Prior notification is still required. **Under no circumstances will make-ups be granted without prior notification.** Leaving early for a break is NOT grounds for a make-up, so please make your travel plans accordingly. In almost all cases, missed work will be assigned a 0.

Academic Integrity: Your work must be your own. Violations will be processed according to the established guidelines of the department, college, and university. Violations of academic integrity include, but are not limited to, cheating, fabrication, or plagiarizing. A range of academic sanctions may be taken against a student who engages in academic dishonesty. Below are ideas related to academic integrity.

Resources you are encouraged to utilize in this course include the textbook and unassigned problems, notes from class, assigned homework problems, your fellow Math 1324 students, the Math Learning Center, and your instructor. E-mail is the best way to contact me.

A note about a resource NOT allowed in this course: while the internet may be a valuable resource, using it to unethically acquire answers for your work will be considered a violation of academic integrity and processed accordingly. Similarly, copying answers from other students' assignments, past or present, violates the idea that your work must be your own.

University Policies: Monday, September 9 is this semester's Census Date, the deadline for all registrations, schedule changes, and section changes. Monday, November 9 is the last day to withdraw from one or more courses. 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, Social Security and FERPA Statement, please see the University Policies and Information file on this course's Canvas page.

Course Policy Regarding AI:

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 or 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 is **not permitted** for exams and quizzes (which should be obvious).

Notice: All policies and information above provide general guidelines for the course and may be amended throughout the course as needed at the discretion of the instructor. Any changes will be directly communicated to students through email, announcement in Canvas, or verbally in the classroom.