

MATH 2414.401 Summer 2026 Syllabus

Instructor:

Dr. Robin Ragland

Office: RBN 4006

Email: rragland@uttyler.edu (Preferred method of communication is Canvas Inbox.)

Office Hours: (Student Hours)

MTWTh 10:40am-12:00pm

Class Schedule:

MTWThF 9:00am-10:30am RBN 2007

Course Purpose and Description

A study of functions, limits, continuity, differentiation of algebraic and trigonometric functions, applications of the derivative, definite and indefinite integrals with applications.

Prerequisites: "C" or better in MATH 2413.

Textbook

We will be using a free online text for this class. You may find it at the following link:

<https://openstax.org/details/books/calculus-volume-2> Links to an external site.

Learning Outcomes

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

- Apply integration to solve problems involving area, volume, and physical work.
- Apply substitution, integration by parts, trigonometric substitution, partial fractions to evaluate definite and indefinite integrals.

- Apply the concepts of limit, convergence and divergence to evaluate some classes of improper integrals.
- Define sequences and series, and determine convergence or divergence.
- Find the Taylor and MacLaurin series to represent elementary functions.
- Apply the ideas of polar coordinates to find areas, lengths of curves and representations of conic sections.

Grading Policies

The grading scheme for this course will be no more harsh than

90-100 A

80- less than 90 B

70- less than 80 C

60- less than 70 D

less than 60 F

The categories for grading are as follows:

Quizzes 15%

Exit Tickets/Notes 5%

Exams 20% each (3 exams)

Final Exam 20%

Extra Credit

A student who takes all exams and earns all nonzero scores on exams will automatically qualify to re-place their lowest grade on an in-class exam with their grade on the final, if that improves their score.

There will be no other extra credit available in this course. Do not ask for extra credit.

Make-ups

Make-ups for **documented** absences that are **required** as part of a UT Tyler obligation (e.g. athletes participating in an event, 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 in only extreme cases such as hospitalization and at the sole discretion of the instructor.

Make-ups for exams will be allowed for the following excused absences:

1. Illnesses, with a doctor's note, no exceptions.
2. Your child's illness, with a doctor's note.
3. Court appearances, including citizenship court, with documentation.
4. Weddings, funerals, or military advancement, with documentation **and** a photograph showing that you attended the event.

Doctor's notes must be dated either before you miss the class or within 2 days after you missed the class, unless you or your child are hospitalized. In case of hospitalization, bring evidence of hospitalization.

Make-ups for exams must be taken within 3 days after returning to class except for lengthy illnesses or hospitalizations.

Homework

In math, the only successful way to study is to practice. Homework is not taken up in this class. However, the quiz problems will be taken directly from your homework problems. **Do your homework.**

Quizzes

Quizzes will be during class on paper every Wednesday and Friday (unless there is an exam). Please see the above for what types of problems will be on the quizzes.

Exit Tickets/Notes

There will be an exit ticket for you to turn in at the end of each class. This will be something small and your grade for it will be completion. Sometimes, the exit ticket will be to upload your notes for the day to Canvas. You will be told at the beginning of class that day which you will be expected to do.

Attendance

Class attendance is mandatory. If you want to do well in this class, you will need to attend every class meeting and come prepared with all the materials (pencil, paper, etc) that you will need for learning.

Calculator Policy

No calculators are allowed in this course.

Cell Phones and other electronic devices

Please set your cell phones to silent mode. If you are expecting an emergency call, please notify your instructor in advance, sit near the door, and answer the phone outside. You will not be allowed to wear electronic devices (except hearing aids) during an exam. During exams, cell phones must be turned off and placed in sight on your desk.

Academic Dishonesty

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 2413 students, the Math Learning Center, and your instructor. Canvas inbox is the best way to contact me. I reply to emails from

9:00 A.M.– 4:00 P.M. Monday–Friday.

Exam Dates

Exam 1: Friday, July 10

Exam 2: Friday, July 24

Exam 3: Friday, Aug. 17

Final Exam: Friday, Aug. 14

All exams and quizzes are taken on paper during class.

A.I.

UT Tyler is committed to exploring an using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical,

societal, philosophical, and disciplinary implications. AI 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 student 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 is **not** permitted at all. In order to get the most of this course, you must complete all assignments without the aid of any AI tools. Refrain from using AI tools to generate any course context (e.g., text, video, audio, images, code, etc.) for any assignment or classroom assignment.