

Syllabus for Math 2413, Calculus I

Class information

Section: 004 005
Time: MWF 9:05–10:20 AM MWF 1:25–2:40PM
Location: Ratliff Building North 4027 Ratliff Building North 4027

Instructor information

Name: Joseph Vandehey
Office Location: Ratliff Building North 4004
E-mail: jvandehey@uttyler.edu
Book: *Essential Calculus: Early Transcendentals* Second Edition
by James Stewart
Office Hours: 1:30–4:30 PM Thursday or by appointment

We will use Canvas in this course. Homework assignments, grades, study guides, and even this syllabus will all be posted to Canvas.

1. COURSE CONTENT

A study of functions, limits, continuity, differentiation of algebraic and trigonometric functions, applications of the derivative, definite and indefinite integrals with applications. We will focus on chapters 1–5 of your textbook, although some topics, such as hyperbolic functions, may be dropped for time.

2. EXPECTATIONS AT THE START OF CLASS

You are expected to be proficient in algebra and trigonometry and to be able to apply algebraic and trigonometric manipulations without being directly prompted. We will discuss more precisely what you are expected to know on the first day of class. See Diagnostic tests A, B, and D in your textbook.

3. GRADING

| Class item | Percent of total grade |
|------------|------------------------|
| Homework | 5% |
| Quizzes | 15% |
| Exams | 80% |

On quizzes and tests, the final answer is often worth far less than any other part of the problem. I care about good mathematical process over anything else. Always, always show your work. Because showing your work is important, I will mark down for extremely messy work or for bad notation.

As I recognize that life is sometimes hectic, the lowest homework grade and lowest quiz grade will be dropped. Exam scores will *not* be dropped or replaced.

At the end of the semester, your final letter grade will be determined *roughly* as follows:

| | |
|---------------------|---|
| 90% or higher | A |
| Between 80% and 90% | B |
| Between 70% and 80% | C |
| Between 60% and 70% | D |
| 60% or lower | F |

Any deviations from the above rubric will only be to your benefit.

4. HOMEWORK

There will be a homework assignment due every Friday (and generally assigned a week prior). I will grade it based solely on *effort*. You are not required to have completed every problem. Homework questions will mostly come from odd numbered problems and the answers will be available to you at the back of your textbook. As such, in order to receive full credit, you must show your work. Sometimes additional questions outside the textbook will be given. To incentivize good homework practices, I will often borrow homework problems for quizzes and tests.

In the case of a pre-arranged excused absence (e.g., for a sporting event), I would still like you to turn in homework. For all other excused absences (e.g., a sudden illness), you do not need to turn in homework, and the score will be dropped.

The most recent material covered in a given homework will be the material covered on the Monday of the week the homework is due.

Also, all homework can be turned in virtually on Canvas.

5. QUIZZES

Quizzes will be given every Friday at the end of class, unless there is an exam that week. They will generally last for twenty minutes. There will not be any make-up quizzes. If you have an excused absence, then the score will simply be dropped: it will have no impact on your grade.

The most recent material covered in a given quiz will be the material covered on the Monday of the week of the quiz. The first quiz will be given January 17th and will cover material from the syllabus and review topics.

6. MIDTERMS

There will be three midterms during this semester.

| | |
|--------|---------------------------|
| Exam 1 | Friday February 7, Week 4 |
| Exam 2 | Friday March 7, Week 8 |
| Exam 3 | Friday April 4, Week 11 |

Midterms will be held in class and last the full class period. If you are late to class, you will not be granted additional time to complete your midterm. Midterms are *not* cumulative and will only cover material discussed in class since the previous midterm. The cut-off date for new material for a given midterm will generally be the Friday the week before of the midterm: material from the week of the midterm will *not* appear on the exam.

7. EXTRA CREDIT OPPORTUNITY

If you score less than 90% on a quiz or exam, you will have an opportunity to recover one point on the grade, up to a maximum of 90%. (As quizzes are worth 10 points, one point corresponds to 10% of your quiz grade.) To earn your extra credit point, you must visit an on-campus tutor in the week after the quiz or exam has been returned to you.

More details on how to obtain the bonus point will be provided later.

8. FINAL

As our class uses a non-standard class time, we cannot be completely certain when the final exam will take place. However, it is likely to be Monday, April 28th from 8:00 to 10:00 AM for section 004 and Monday, April 28th from 12:30PM to 2:30 PM for section 005.

The final will consist of two parts. The first part will be essentially a fourth midterm over the material you have not yet been tested on. The second part will be a review of the material learned throughout the semester. The two parts will be of similar length and point total.

9. ADDITIONAL COMMENTS

- (1) Exceptions to the above rules will be made in the case of extreme circumstances (death in the family, severe illness, etc.).
- (2) There is no special attendance policy for this course.
- (3) Please note that January 25th is the census date for this course, which is the deadline for all registration and schedule changes.
- (4) Cheating on quizzes or exams is strictly prohibited and carries severe consequences, up to and including expulsion from the university. You are, however, actively encouraged to work together on homework assignments, provided you write up your own solutions and hand them in independently.
- (5) Calculators, phones, tablets, laptops, or any other computing or communication devices are not permitted on quizzes or tests. Use of them will be considered cheating.
- (6) If you believe I have graded a quiz or exam in error, come see me at the end of the class in which I handed it back. Leaving class with the quiz or exam means you accept the grade you have been given.
- (7) I frown upon the use of erasers on quizzes and tests. They make me sad.
If you think your work is wrong, cross it out. Do not erase! I cannot give partial credit for work that has been erased and I can no longer read.

UT Tyler Resources for Students.

- The Mathematics Learning Center, RBN 4021. This is an open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu
- UT Tyler Counseling Center (903.566.7254)

10. SPECIAL COMMENTS ABOUT 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 for this course is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

In this class, to best support your learning, you must complete all graded assignments without the aid of AI. Refrain from using AI tools to generate any course content (e.g., text, video, audio, images, code, etc.) for any classroom assignment.

This syllabus is a general guideline for the course. Deviations may be necessary as the semester progresses.