Math 1131Q Section H703 Fall 2024
Calculus I

Instructor: Ambar Sengupta
Class Tu, Thu 9:30-11:10am in HTB 228
E-mail: Please email through HuskyCT
Online Office Hours: Will be specified.

What Calculus is about: Whether you plan to be charting the paths of rockets for trips to Mars or working out the dynamics of the next epidemic, Calculus will be the fundamental mathematical tool you will need. The two foundational concepts in Calculus are derivatives and integrals. The derivative is a measure of how fast something is changing, and the integral is a way of putting together pieces to recover a whole. Geometrically, some of the core ideas are curves, tangents, areas, and volumes. Quantitative descriptions use functions such as polynomials, trigonometric functions, exponentials, and we will have to be very comfortable working with these.

Important note: This section will proceed at a pace and ordering of topics that is likely to be quite different from other sections.

`https://courses.math.uconn.edu/fall2024/math-1131/`

for information concerning Academic Integrity, Makeup Policy, and important other statements on resources, skills, and responsibilities. The Hartford Campus also offers tutoring services; please see

`https://qcenter.hartford.uconn.edu/`

What to read: The textbook is *Calculus Early Transcendentals, Single Variable*, by James Stewart (8th Edition). We will use it as the main reference and for homework assignments. We will also use online resources and material posted through HuskyCT.

Background needed: The absolutely essential prerequisite is algebra. You need to be able to work out things like $(x^2+4x+3)^2(5x-y^2)$ without any hesitation. If you know how to do such algebra but are not totally comfortable, you need a lot of practice before we get going.

Homework, Quizzes, and all that: There will be regular assignments and quizzes. Late homework will not be given full credit. There will be a large number of assessments, and the lowest few quizzes/homework assignments would be dropped; no make-up quizzes will be offered.

Grading: A necessary evil. Your grade will be determined from your performance in the quizzes, assignments, and examinations. There will be no final examination. The following are *planned dates* for assessments; **updates will be posted.**

Homework/Assignments/Quizzes	frequent	40%
Exam 1	9/26	15%
Exam 2	10/17	15%
Exam 3	11/7	15%
Exam 4	12/5	15%

Please check HuskyCT for letter grades.

Statement for Student Health and Wellness (SHaW)

Your health is a critical part of your success and I encourage you to reach out for support if you encounter challenges or difficulties that impact your performance or your well-being. Resources are available at Student Health and Wellness (SHaW) `http:studenthealth.uconn.edu`

860.486.4700

Academic Integrity

Please consult

`https://community.uconn.edu/the-student-code/the-student-code-appendix-a/`

Make-Up Policy

It is important for you to stay home if you are feeling ill. Please contact your TA and instructor ASAP via email if you need to miss a discussion section due to illness or other personal reasons, and attach to your email any work that is due that day. If you are missing a quiz or exam due to illness or other personal reasons, please include in your email your available times for a make-up quiz or exam over the next few days. You must contact your TA and the instructor ASAP if you know that you will miss a Quiz or Exam. You will not be able to make up a missed Quiz or Exam if you do not contact your instructor within 24 hours after returning to classes at UConn following your absence. Athletes who travel on behalf of the university must provide a letter/email from their athletic advisor in order to be allowed to take a make- up Quiz or Exam. In case of a missed assignment, quiz, or exam please make every effort to contact your instructor as soon as you know you will miss it, and no later than 24 hours after the missed assessment or due date.

Extra Credit

Extra Credit is NOT given. Individual requests for extra credit or to make up work that is long past due will not be granted.

General UConn Statements: Please see the separately posted document for UConn statements and resources for students.