**Math 1131Q Section H73** Fall 2023
**Calculus I**

**Instructor:** Ambar Sengupta
**Class** Tu, Th 9:30-11:10am in HTB 317
**E-mail:** Please email through HuskyCT
**Online Office Hours:** Will be specified later.

**Course Description:** Whether you plan to be charting the paths of rockets for the next moon landing or working out the dynamics of the next epidemic, Calculus will be the fundamental mathematical tool you will need. The two fundamental 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. Please consult

`https://courses.math.uconn.edu/fall2023/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.

**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.**

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

Please check HuskyCT to see what point score translates to what letter grade.

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