MATH 1151Q: HONORS CALCULUS I, SECTION 1
FALL 2014

Class Meetings: TuTh 12:30-1:45 in GENT 221, W 12:20-1:10 in MSB 311
Instructor: Myron Minn-Thu-Aye
Office: MSB 424
Office Hours: Tu 11-12 & 2-3, W 1:15-4:15, Th 11-12 & 2-3
E-mail: myron.minn-thu-aye@uconn.edu
Webpage: www.math.uconn.edu/~myron/math1151f14/
Textbook: Single Variable Calculus: Early Transcendentals or Calculus: Early Transcendentals by Stewart

Course Description:
Functions are used to describe countless phenomena that occur in our everyday lives: the motion of vehicles, trends in music, the spread of illnesses; the list goes on. Beginning with the concept of a limit, we will delve into a study of differentiation and integration, two incredibly useful, and surprisingly related, techniques that provide beautiful insight into how functions describe change. Our goal will be to cover the same content as MATH 1131Q, but paying more attention to underlying theory, mathematical reasoning, and varied applications.

Class Format and Homework:
We will try to keep in-class lecturing to a minimum. Instead, you will be asked to watch videos and do readings designed to introduce basic concepts before class. Our class meetings will be a time for asking questions, engaging in small-group discussions, applying new knowledge and skills in various contexts, presenting work to each other, and developing and working through examples to deepen our understanding. We will often start working together on homework problems in class that you will go on to finish outside of class. There will be a brief homework assignment due on the first Thursday of class, and homework will be collected every two weeks after that. We will pay careful attention to communicating ideas clearly and justifying our assertions, which will involve a good deal of writing (yes, in a math class!).

Exams:
Over the course of the semester, there will be an oral midterm exam, a take-home midterm exam, and a final exam in the format of your choice. Calculators are not allowed on exams. The dates of our exams are:

Exam 1: Oral exam scheduled between Wednesday, October 1st, and Wednesday, October 8th
Exam 2: Take-home exam from Thursday, November 6th to Tuesday, November 11th
Final Exam: Take-home or oral exam from Thursday, December 4th to Sunday, December 14th

Grading:
Grades will be determined roughly as follows:
Homework: 25%
Best Two Out Of Three Exam Scores: 50%
Final Exam: 25%

Some words of advice:
It is going to be really important to keep up with our schedule, which means reviewing the specified resources to prepare for each class, and continuing to work on furthering your understanding of the material outside of class. You will be expected to provide well-explained reasoning for all of your work, which will involve quite a bit of writing. This may seem somewhat unusual to you at first, but make sure you keep practicing these skills and ask me if you're ever unsure of anything. An important part of this course will be asking lots of questions and talking about the material with me and with your classmates. Make use of my office hours, and feel free to contact me by e-mail as well.

Academic Honesty:
Collaboration on homework is allowed and encouraged but you must write up your solutions on your own. During exams, no communication between students is allowed. Any violation of this policy only undermines the goals of our class and serves as a detriment to students' learning.