

Math 1151Q - Honors Calculus I

Fall 2011

Days, Time, Classroom: TuTh 12:30 - 1:45 MSB 415, Wed 12:00 - 12:50 MSB 311

Professor: Jay Wilkins

Office: MSB 412

Office Hours: Tuesday, Thursday 2 PM - 3 PM, Wed 1 PM - 2 PM,
or by appointment if necessary

Email: leonard.wilkins@uconn.edu

(Email is the most effective way to get in touch with me.)

Textbook: *Calculus: Early Transcendentals*, Briggs and Cochran

Course Description: We will take an in-depth approach to learning the basic concepts and methods of differential calculus.

Grading: Homework/Quizzes - 15%, Two Midterm Exams - 25% each, Final Exam - 35%

Homework and Quiz Policy: Homework will be assigned regularly (typically for two sections at a time), but it will not be collected. Whenever homework is assigned, a due-date will be given for that homework assignment. On that due-date, you may or may not have a quiz over that particular assignment. The quizzes will be unannounced, in the sense that you will not know beforehand whether there will be a quiz on the due-date or not. The quiz problems will come from the homework assignment. The quizzes will be given at the beginning of class, will consist of between 2 and 5 of the homework problems, and you will have between 10 and 20 minutes to complete the quiz, depending on the number of problems. So, if you keep up with the homework, the quizzes will simply consist of problems you have already completed.

Exams: Midterm exam dates are not yet set, but you can expect the first around the beginning of October and the second around the beginning of November. The dates will be announced well in advance. The final is tentatively scheduled for Friday, Dec. 16th, 10:30 AM.

Make-up Policy: I will drop your lowest quiz grade (lowest two if we have 12 or more). Consequently, make-up quizzes will not be given for any reason, even for a valid excuse.

Make-up exams will not be given unless the student has a valid, documented excuse (e.g. medical, legal, athletic, etc.). The documentation must be provided to me, and I will contact the involved parties/organizations and verify the excuse before the make-up will be allowed. Due to the extra time for study and preparation, along with the opportunity to speak to other students about the original exam, make-up exams will be more difficult than the originals.

There are no exemptions or make-ups for the final exam.

Expectations of You:

- 1) Come to class (on time), and stay the entire time. You are responsible for knowing the course material, homework assignments, exam dates, etc. whether you attend class or not. *Office hours are for help with homework, assistance, clarification, explanation, understanding, etc. - not for re-teaching lectures that a student misses.*
- 2) Obviously, you are expected to behave appropriately during class. In particular, turn cell-phones off or to silent during class, and do NOT have them out at all during quizzes/exams.
- 3) If you need help, seek it before it's too late!

Academic Integrity: You are expected to abide by the university's academic integrity policies (see *The Student Code, Part VI: Academic Integrity in Undergraduate Education and Research*). Cheating in any form will not be tolerated, and I will pursue and enforce the consequences for all students involved.

Tutoring: The Quantitative Learning Center (Q-Center) offers free tutoring for Q-courses (quantitative intensive) Sunday through Thursday during the semester. See qcenter.uconn.edu for hours and details.

Tentative Course Outline and Schedule

Limits and Derivatives

Chapters 1 and 2: Function/Graphing Review, "Intuitive" Limits, Computation of Limits, Limits Involving Infinity, Continuity, Precise Definition of Limits

Chapter 3: Derivatives, Techniques for Computing Derivatives

Exam 1

Advanced Differentiation Techniques, Applications of Derivatives

Chapter 3: Implicit and Logarithmic Differentiation, Related Rates

Chapter 4: Max/Min Problems, Curve Sketching, Optimization, Linear Approximation and Differentials, Mean Value Theorem, L'Hospital's Rule

Exam 2

Introduction to Integration and its Connection to the Derivative

Chapter 5: Antiderivatives, Introduction to Integrals and Areas Under Curves, Definite Integrals, Fundamental Theorem of Calculus, Computing Integrals

Final Exam