MATH 1151Q – Sections 002 & 003
Honors Calculus I
Fall 2016

Instructor:
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Meeting Times: Section 002 - MWF 8:00 - 9:15 in ITE 127
Section 003 - MWF 9:25 - 10:40 in LH 110

Office Hours: Monday 3:30 – 5:00
Wednesday 1:30 – 3:00
or by appointment

Description: This course is an introduction to differential and integral calculus, which is the mathematical language used in any science concerned with dynamically changing quantities. The main topics are limits, derivatives, integrals, the Fundamental Theorem of Calculus, and various applications of these ideas. As an honors course, coverage of these topics will be in greater depth than in Math 1131Q, and there will be a greater focus on the underlying mathematical concepts. As such, being able to explain why something is true will constitute a significant portion of this course.

Prerequisite: A minimum qualifying score of 76% on the Mathematics Placement Assessment (MPA). Students cannot receive credit for MATH 1151Q and either MATH 1121 or 1131Q. May be used in place of MATH 1131Q to fulfill any requirement satisfied by MATH 1131Q.

Text: The textbook for the course is *Calculus: Early Transcendentals* by James Stewart (8th Edition), which is bundled with a WebAssign code for online homework. You have the choice of buying one of two versions of the text, depending on how much calculus you plan to take in the future:

- **If you do NOT plan to take Math 2110 or 2130** (multivariable calculus), then you should purchase *Single-Variable Calculus: Early Transcendentals* by Stewart (8th Edition).
- **If you plan to take Math 1151, 1132 or 1152, *and* 2110 or 2130** (multivariable calculus) then you should purchase *Calculus: Early Transcendentals by Stewart* (8th Edition).

IMPORTANT!
There are three ways to purchase the text and the WebAssign access code:

- Get the text and WebAssign access code bundled together from the publisher's special website for either the single variable version (1131/1132) or the full version (1131/1132/2110).
- Get the text and WebAssign access code bundled together at the UConn Bookstore.
- Get the text separately from anywhere, and buy the WebAssign access code when you access your homework through HuskyCT.

I do not recommend using the third option above, because it is more expensive to buy the access code and the textbook separately. Purchasing the text and WebAssign access code together lets you use that access code for the life of the edition of the textbook.

Homework and Worksheets: The best way to learn math (or anything, for that matter) is to practice it daily. WebAssign Homework will be assigned each class day and must be accessed through HuskyCT (lms.uconn.edu). Worksheets will be assigned and collected periodically, with at least one class period's notice. Worksheets are due at the start of class, and late work will not be accepted except in extenuating circumstances with proper documentation. It is also expected that you prepare for class by looking over before class the material in the book that will be discussed in class that day.

Quizzes: There will be quizzes given throughout the semester. Most of these will be in-class, individual, closed-book, closed-notes quizzes, but there may be some variations. Advance notice will not always be given for quizzes, so it is important to keep up with your homework, read the text, and review your notes regularly. Make-up quizzes will not be given. Your lowest quiz score will be dropped at the end of the semester.

Group Presentations: Starting on about September 16, parts of the course material will be presented by you and your peers in the form of group presentations. Working in groups of 2-3 students, you will be responsible for presenting an example relevant to the day's material, twice during the semester. This will, of course, require you to read ahead in the book, work out several problems, and work with each other and with me to ensure that you understand what you are teaching. The goals of these presentations include:

- Deepening your understanding of a few topics in the course, and thereby preparing you to apply the techniques you learn confidently in this and future courses
- Helping you to take ownership of your learning in the course
- Creating an open, respectful, engaging Math 1151 learning community

The presentations should last about 5-10 minutes each. You are encouraged to find ways to engage your peers during these presentations. In the first two weeks of class, you will be given more information on these presentations, including your group and section assignments, an assignment sheet with expectations and resources for teaching tips, and a grading rubric.

Grading Policy: Your quizzes and exams will be returned to you in class in a timely manner, usually within a week. If there is a grading error, please talk to me privately after class on the day it is returned in order to resolve it. If we need to meet at a later date or if I need to review it further, I will take it with me. Once you leave the classroom with your assignment, the grade is final.

Exams: There will be two exams, tentatively scheduled for Wednesday, Oct. 5 and Wednesday, Nov. 9. The final exam will be comprehensive and will be scheduled by the university during the week of Dec. 12 - Dec. 18. The scheduled time will be announced in class and posted in HuskyCT once the exact date and time are known. All exams will be closed notes and closed book. There will be no make-up exams except in extenuating circumstances with a documented excuse. To reschedule or make up the final exam, you must contact the Office of the Dean of Students.

Grading:

Homework and Worksheets	15%
Group Presentations	10%
Quizzes	10%
Midterm Exam 1	20%
Midterm Exam 2	20%
Final Exam	25%

How to Succeed in this Course: For many of you, this course will involve more conceptual and abstract ideas than you are used to seeing in mathematics classes. This will take some adjustment, and now is the best time to develop the habits that will help you succeed. These include:

- actively reading the text before class to better understand the examples done in class
- actively listening and participating in class
- actively re-reading the text after class to help solidify your understanding
- working through the assigned homework (much of which should be done without your book/notes to prepare you for quizzes and exams), identifying any remaining trouble areas, and working through more problems or asking for help in those areas – either from me or from other students
- focusing on developing the ability to explain your ideas, both verbally and in writing, correctly using the vocabulary defined in the course
- finding your mathematics support community – classmates, office hours, Q center, etc.

Academic Integrity: Please respect your and others' work and academic experience. Cheating will be taken seriously. Examples of things that will be addressed include, but are not limited to, communicating with anyone other than me while any quiz or exam is underway, representing another person's work as your own (this includes work found on the internet or in a solutions manual), or bringing unauthorized materials to any quiz or exam. Consequences may include, but are not limited to, a score of zero on the quiz or exam, a grade of F in the course, or referral to the Academic Integrity Hearing Board. To read UConn's full policy on Academic Integrity, visit community.uconn.edu/the-student-code-appendix-a/.

Tentative Course Schedule

Aug. 29 - Sept. 16 *	Sections 2.1-2.8
Sept. 16	Group Presentations Begin
Sept. 19 - Sept. 28	Sections 3.1-3.5
Sept. 30	Review for Exam 1
Oct. 3 (Mon)	Exam 1
Oct. 5 - Oct. 14	Sections 3.6-3.10
Oct. 17 - Nov. 2	Sections 4.1-4.4, 4.7-4.9
Nov. 4	Review for Exam 2
Nov. 7 (Mon)	Exam 2
Nov. 9 - Nov. 28 *	Sections 5.1-5.5
Nov. 30 - Dec 5	Sections 6.1-6.2
Dec. 7 - Dec. 9	Final Exam review
Dec. 12 - Dec. 18	Final Exam week

***No classes** Monday Sep. 5 for Labor Day and Saturday, Nov. 19 Through Sunday, Nov. 27 for Thanksgiving Break.