University of Connecticut

MATH 1131Q (Calculus I)
Summer Session 2 2025

Course Outline

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Office Hours: The office hours schedule for this course can be found on HuskyCT in the "Questions and Help" folder.

Excluding materials for purchase, syllabus information may be subject to change. The most up-to-date syllabus is located within the course in HuskyCT.

Course 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 it covers are limits, derivatives, integrals, the Fundamental Theorem of Calculus, and some basic applications of these ideas.

Course Structure**:** The format for this course is completely **asynchronous**. Lecture videos and homework assignments will be available for you to watch at any time in a given module. Lecture videos and notes will be posted under the "Course Content" folder on HuskyCT. **Inside the Course Content folder will be individual folders for each module of the course that become available at 12:00AM EST on the dates listed in the course outline below.**

Prerequisites: A qualifying score of 22 on the mathematics placement exam (MPE). Students who fail to achieve this minimum score are required to spend time on the preparatory and learning modules before re-taking the MPE, or to register for a lower level Mathematics course. Not open for credit to students who have passed MATH 1132Q or 1152Q.

Textbook Information: You can purchase the bundled version of Calculus Early Transcendentals, Single Variable by James Stewart (9th Edition) either at the UConn Bookstores or **directly from Cengage once you register in WebAssign through HUSKYCT**. **Both the text and the WebAssign code are required for this course.** The unbundled version of the book (that is, the book without a WebAssign access code) can be obtained in many places, but the cost of buying the unbundled text and the WebAssign code separately may be significantly greater. How can you decide which version of the text to buy?

Course Objectives: Successful completion of this course will require you to learn to:

1. Apply fundamental algebra skills to calculus problems.
2. Use common techniques to evaluate limits, and connect limits to derivatives.
3. Interpret derivatives as rates of change.
4. Combine ideas from algebra and trigonometry with knowledge of limits and derivatives to recognize features of the graph of a function.
5. Use derivatives to describe the features of a function and its graph, including maximum and minimum values and where they occur.
6. Identify applications of differential and integral calculus, and explain how calculus can be used in these applications.
7. Apply the Fundamental Theorem of Calculus and the substitution rule to evaluate definite and indefinite integrals.
8. Demonstrate how integrals are connected to the area under the graph of a function.

Software/Technical Requirements: HuskyCT/Blackboard, Campuswire, Adobe Acrobat Reader, WebEx, **WebCam**, Dedicated access to high-speed internet.

- **NOTE**: This course has NOT been designed for use with mobile devices.
- This course uses the learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, you have access to the in person/live person support options available during regular business hours through the Help Center. You also have 24x7 Course Support including access to live chat, phone, and support documents.
- Student technology training is now available in a new HuskyCT short course created by students for students. It will prepare you to use the IT systems and services that you will use throughout your time at UConn, whether learning online or on-campus. It is available at https://lms.uconn.edu/ultra/courses/_80016_1/cl/outline.

Policies & Resources:

1. **Make-Up/Late Policy:** Course due dates are identified in this syllabus, on HuskyCT, and on WebAssign. **Deadlines are based on Eastern Time unless otherwise specified.** In general, you will not be allowed to make up any exam, assignment, or worksheet. Only extreme situations with an officially documented excuse will allow you to make up an

evaluation/assessment. Whenever possible, these excuses must be presented before the evaluation/assessment is due or is supposed to take place in class.

2. **Zero Tolerance Policy:** Academic integrity is a core value of this course and the university. Any instance of academic dishonesty—whether on homework, worksheets, or exams—regardless of the assignment's weight, will result in a **failing grade for the course** and a report to the Office of Community Standards. Students are strongly encouraged to uphold the highest standards of integrity in all coursework.
3. **Academic Integrity:** Academic misconduct is dishonest or unethical academic behaviour that includes but is not limited to, misrepresenting mastery in an academic area (e.g., cheating), intentionally or knowingly failing to properly credit information, research, or ideas to their rightful originators or representing such information, research or ideas as your own (e.g., plagiarism). [Student Code of Conduct, Appendix A]. Instructors shall take reasonable steps to prevent academic misconduct in their courses and to inform students of course-specific requirements. [Student Code of Conduct, Appendix A, Section A. Instructors Role]. The definition of academic misconduct and how to report an incident can be found in the Academic Misconduct FAQ on the Community Standards website.
4. **Student Authentication:** The University of Connecticut is required to verify the identity of students who participate in distance learning or online courses and to establish that students who register in these courses are the same students who participate in and complete the course activities and assessments and receive academic credit. Verification and authentication of student identity in this course will include (1) students accessing the course content via HuskyCT with their NetID and password and (2) instructor proctored exams for which instructors can ask for identification and/or confirm student identity via the official UConn photo in StudentAdmin. Approved photo identifications are: UConn student id, passports, government issued identification, driver's licenses, military ID from DoD.
   For more information see https://kb.ecampus.uconn.edu/2020/12/02/authentication-of-students/.
5. **Student Responsibilities and resources:** As member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. Review these important standards, policies and resources.
6. **Student Authentication and Verification:** The University of Connecticut is required to verify the identity of students who participate in online courses and to establish that students who register in an online course are the same students who participate in and complete the course activates and assessments and receive academic credit. Verification and authentication of student identity in this course will include some or all of the following methods:
   a. Secure access to the learning management system using your unique UConn NetID and password.
   b. Online proctoring, video conference with ID check, and submitting a scanned image of ID alongside exams.
7. **Resources for Students Experiencing Distress:** The Uuniversity of Connecticut is committed to supporting students in their mental health, their psychological and social well-being, and their connection to their academic experience and overall wellness. The university believes that academic, personal, and professional development can flourish only when each member of our community is assured equitable access to mental health services. The university aims to make access to mental health attainable while fostering a community reflecting equity and diversity and understands that good mental health may lead to personal and professional growth, greater self-awareness, increased social engagement, enhanced academic success, and campus and community involvement
   a. Students who feel they may benefit from speaking with a mental health professional can find support and resources through the **Student Health and Wellness-Mental Health** (SHaW-MH) office. Through SHaW-MH, students can make an appointment with a mental health professional and engage in confidential conversations or seek recommendations or referrals for any mental health or psychological concern.
   b. Mental health services are included as part of the university's student health insurance plan and also partially funded through university fees. If you do not have UConn's student health insurance plan, most major insurance plans are also accepted. Students can visit the **Student Health and Wellness-Mental Health located in Storrs on the main campus in the Arjona Building, 4th Floor,** or contact the office at **(860) 486-4705, or https://studenthealth.uconn.edu/** for services or questions**.**
8. **Accommodations for Extended Absences:** If life circumstances are affecting your ability to focus on courses and your UConn experience, students can email the Dean of Students at dos@uconn.edu to request support. Regional campus students should email the Student Services staff at their home campus to request support and faculty notification.
9. **Accommodations for Students with Disabilities:** The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.
   a. Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government." (Retrieved March 24, 2013 from Blackboard's website.

Grading

WebAssign Homework (online)	10%
Worksheets	10%
Exam 1	20%
Exam 2	20%
Exam 3	20%
Exam 4	20%*

Grade	Percentage	Grade	Percentage
A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	59 & below

*__Note on Final Exam Score:__ Your final exam grade may replace a lower exam grade if it benefits you. That is, if your final exam score is higher than your lowest exam grade, the final exam score replaces the lowest grade in the calculation. If not, it just counts as the final and you keep your other exam scores as they are. This provides an opportunity for students to improve their grade by demonstrating mastery of the material on the cumulative final exam.

- **WebAssign Homework:** Online homework is assigned and completed using WebAssign. To access the homework you will have to go through Husky CT single sign-on. In your account you will find a link to do your homework using WebAssign. There will be homework assignments for each section of the text. All assignments for a given module will be available at the start of the module. Due dates are given in the table below. **You will get five attempts for each question that is not multiple choice and fewer than five attempts for each multiple choice question; the exact number of attempts will depend on the number of choices.** After each attempt, you will be told whether your answer is correct or not. If you are not able to get the correct answer after your initial attempts, we recommend that you seek help by posting on CampusWire and/or attending online office hours before attempting to answer the problem again.

- **Worksheets:** Each module of this course is accompanied by a worksheet that you must complete and submit. Worksheets will be posted on HuskyCT and Gradescope at the start of each module. Due dates are given in the table below and will also be posted online. **Worksheets will be submitted on Gradescope, which can be accessed through HuskyCT. Please use your UConn email ID for registering with Gradescope.** Worksheet solutions will be posted on HuskyCT after the due date. All corrections and feedback will be posted to Gradescope. Instructions to submit an assignment to Gradescope can be found here: https://help.gradescope.com/article/ccbpppziu9-student-submit-work.

- **Campuswire:** We will use Campuswire as a course discussion/participation tool to allow us to collaborate on homework questions and exam preparation. **Please create a Campuswire account using your UConn email by using the "Campuswire" link on HuskyCT**.

  Campuswire allows students and instructors to post questions, answers, and comments in a forum/chatroom format. Instructors will be active in answering questions daily, but students are also encouraged to respond to each other's' questions to help one another understand the material. You can post questions regarding your homework, studying, or anything else that pertains to issues with concepts within each topic. You can also use Campuswire to chat with other students in the class directly and create group chat rooms to discuss problems and study for exams.

  We strongly encourage you to be active in the online discussions and not only post any questions that you may have, but also answer questions from your fellow classmates.

  - **Please post or direct message me/TA any questions regarding course material or homework on Campuswire *before* emailing.** Campuswire lets us use a math-type setting that allows us to easily explain concepts involving formulas and symbols. Creating posts on Campuswire also gives students the opportunity to answer each other's questions and view already posted questions.
  - **Make sure to post in the correct category.** Questions about material or homework assigned in Module 1 should be posted in the "Module 1" category; questions about Exam 1 should be posted in the "Exam 1" category; etc.
  - **Please use a descriptive title when posting questions.** For example, "WebAssign 2.5 #5" or "Worksheet 2 #4" or "Lecture 7.1 Example 2". This will help other students find questions easily. Also, try to make it as clear

as possible what part of the problem you are confused with or where you are stuck. **It often helps to accompany your question with a screenshot of the problem and your work.**

- **Exams:** There will be a total of **four exams** for this course (one exam per module). The **fourth and final exam will be cumulative** and will cover Modules 1-4. All exams will be taken online using Respondus lockdown browser and monitor in HuskyCT. The dates of the exams are given in the table and course outline below.
  - On the day of the exam, **you will be able to access the exam between 8:00AM EST to 8:00PM EST.** You will have **80 minutes to complete each exam**.
    i. **Those who have technology issues must start their exam and finish it between 8:00AM and 4:00PM where we can find IT support for you if you need it.**
    ii. **I will not accept technology issues as an excuse for anyone taking the exam after 4:00PM and running into tech issues that cannot be resolved because full IT support might not be available.**
  - Exams will be part multiple-choice and part free response. **You will be required to upload all your handwritten work used to answer the free response portion of the exam to Gradescope within 10 minutes of submitting your exam.** Partial credit will be given on the free response portion based on your uploaded work. There is no partial credit for the multiple-choice portion.
  - **A working WebCam is required for this course in order to take the exams through Lockdown Browser.** You will also be required to show official photo identification at the start of each exam (UConn student id, passports, government issued identification, driver's licenses, military ID from DoD).
  - On exams you will be allowed to use the built-in Lockdown Browser calculator and Desmos, when applicable. **No external materials, books, or devices of any kind are allowed to be used on any of the exams unless specified by the instructor.**
  - There will not be any makeup exams given. If there is an emergency and you must miss an exam, you will be responsible for notifying your instructor **ahead of time** or you will not get credit for that exam.
  - **Academic integrity warning: You may not post exams on Chegg or any other website.** Exams are considered as intellectual property of UConn and it is therefore a copyright infringement to post or copy exams in any form. Failure to follow UConn's academic integrity policies on any assessment will result in a 0 in the course and will be reported to the university's academic integrity office and appropriate Dean.

Due Dates

Module	WebAssign & Worksheets	Exams
1	7/20/25 11:59PM EST	7/21/25 (available from 8:00AM EST to 8:00PM EST)
2	7/28/25 11:59PM EST	7/29/25 (available from 8:00AM EST to 8:00PM EST)
3	8/5/25 11:59PM EST	8/6/25 (available from 8:00AM EST to 8:00PM EST)
4	8/14/25 11:59PM EST	8/15/25 (available from 8:00AM EST to 8:00PM EST)

Tentative Outline		
Module	**Section**	**Topic**
1 **Available: 7/14**		Course Intro
	2.1	The Tangent and Velocity Problems
	2.2	The Limit of a Function
	2.3	Calculating Limits Using the Limit Laws
	2.5	Continuity
	2.6	Limits at Infinity: Horizontal Asymptotes
	2.7	Derivatives and Rates of Change
	2.8	The Derivative as a Function
	3.1	Derivatives Of polynomials and Exponential Functions
	3.2	The Product and Quotient Rules
	7/20	**Module 1 WebAssign & Worksheet Due**
	7/21	**Exam 1**
2 **Available: 7/22**	3.3	Derivatives of Trigonometric Functions
	3.4	The Chain Rule
	3.5	Implicit Differentiation
	3.6	Derivatives of Logarithmic Functions
	3.8	Exponential Growth and Decay
	3.9	Related Rates
	3.10	Linear Approximations
	7/28	**Module 2 WebAssign Due**
	7/29	**Exam 2**
3 **Available: 7/30**	4.1	Maximum and Minimum Values
	4.2	Mean Value Theorem
	4.3	How Derivatives Affect the Shape of a Graph
	4.4	Indeterminate Forms and L'Hospital's Rule
	4.7	Optimization Problems
	4.9	Antiderivatives
	8/5	**Module 3 WebAssign & Worksheet Due**
	8/6	**Exam 3**
4 **Available: 8/7**	5.1	Areas and Distances
	5.2	The Definite Integral
	5.3	The Fundamental Theorem of Calculus
	5.4	Indefinite Integrals and the Net Change Theorem
	5.5	The Substitution Rule
	6.1	Areas Between Curves
	6.2	Volumes
	8/14	**Module 4 WebAssign & Worksheet Due**
	8/15	**Exam 4 (Cumulative)**