Syllabus - Summer II 2026

Syllabus information may be subject to change in the event of unforeseen circumstances. The most up-to-date information is located within the course in HuskyCT.

Course Description: Essential concepts of differential and integral calculus, specifically derivatives and integrals of algebraic, exponential and logarithmic functions with applications to business and economics.

Recommended preparation: MATH 1011Q or the equivalent, and MATH 1070Q, and a qualifying score on the math placement assessment. Not open to students who have passed MATH 1110Q. Only one credit for students who have passed MATH 1121Q, 1131Q, or 1151Q.

Course and Instructor Information

Course Title: Calculus for Business and Economics
Credits: 3
Format: Online Asynchronous (OA)

Professor: Jessica Fuller

Email: jessica.fuller@uconn.edu

Google Voice Texting: (860) 255-4615 (standard rates apply)

Student Hours:

Open Drop-in Hours: Specific hours TBD via student survey the week before the course begins

Virtually By Appointment: Additional hours for individuals available throughout the week Monday through Friday. Specific hours TBD the week before the course begins.

Virtual Office WebEx: **https://uconn-cmr.webex.com/meet/jmf07016**

Required Materials

Online Textbook: *OpenStax Calculus Volume 1: UConn Custom Business Calculus Edition. (linked)*

Online Homework: MyOpenMath (linked) for free immediately graded practice on each topic [register with course ID: 321922 and enrollment key (emailed one week before the course starts)]

Technology Requirements: Access to a computer with a working WebCam and an updated LockDown Browser for assessments as well as a way to submit PDFs of work.

Course Objectives

By the end of the semester, students should be able to:

1. Create and use mathematical models to represent various business and economics related functions, including cost, revenue, profit, supply and demand.
2. Create and solve expressions including exponential and logarithmic functions, relating to certain applications in business and economics.
3. Evaluate various types of limits and define asymptotes, continuity and derivatives using limits.
4. Use the limit definition of the derivative to understand the derivative as the instantaneous rate of change and also the slope of the tangent line to a curve.
5. Evaluate the derivative of functions using standard derivative rules.
6. Define the elasticity of demand and determine when demand is elastic, inelastic or unit elastic.
7. Use the first and second derivative of a function, as well as its properties like domain, asymptotes and symmetry, to understand the overall shape of a function and draw its graph.
8. Setup and solve optimization and related rates problems in business applications, using derivatives.
9. Evaluate both indefinite and definite integrals, using basic antiderivative rules, including substitution.
10. Use integrals/antiderivatives to solve problems, like finding cost from marginal cost, net change from a rate of change, or the area under or between curves.

Course Requirements and Grading

Summary of Course Grading:

Course Components		Weight
Online Homework	MyOpenMath	15%
Worksheets	HuskyCT	15%
Video Notes Quizzes	HuskyCT	10%
Module Tests	LockDown Browser and HuskyCT	40%
Final Exam	LockDown Browser and HuskyCT	20%

Course Schedule

Module 1: Algebra Review and Mathematical Models (1.1-1.8)
Module 2: Limits (2.1-2.4, 3.1, 3.2)
Module 3: Derivative Rules (3.3, 3.4, 3.6, 3.9, 4.1)
Module 4: Applications of Derivatives (4.2, 4.3, 4.5, 4.6, 4.7, 4.8)
Module 5: Integrals (5.1-5.3, 5.5)

		Monday	Tuesday	Wednesday	Thursday	Friday
Week 1: 07/13-07/19	**Topics**	1.1, 1.2, 1.3	1.4, 1.5, 1.6	1.7, 1.8	2.1, 2.2	
	Due	Intro Survey	Notes Quizzes HW Set 1	Notes Quizzes HW Set 2	Notes Quizzes HW Set 3	Worksheet 1
Week 2: 07/20-07/26	**Topics**		2.3, 2.4	3.1, 3.2	3.3, 3.4	
	Due	Module 1 Test	Notes Quizzes HW Set 4	Notes Quizzes HW Set 5	Notes Quizzes HW Set 6	Worksheet 2
Week 3: 07/27-08/02	**Topics**		3.6, 3.9	4.1, 4.2, 4.3	4.5, 4.6	
	Due	Module 2 Test	Notes Quizzes HW Set 7	Notes Quizzes HW Set 8	Notes Quizzes HW Set 9	Worksheet 3
Week 4: 08/03-08/09	**Topics**		4.7	4.8	5.1, 5.2	
	Due	Module 3 Test	Notes Quizzes HW Set 10	Notes Quizzes HW Set 11	Notes Quizzes HW Set 12	Worksheet 4
Week 5: 08/10-08/14	**Topics**		5.3	5.5		
	Due	Module 4 Test	Notes Quizzes HW Set 13	Notes Quizzes HW Set 14	Worksheet 5 HW Set 15	Final Exam

Assignments

Online Homework via MyOpenMath

There will be homework assignments for each topic. You will have 6 attempts to answer each question. After each attempt, you will be told whether or not your answer is correct. If you are not able to get the correct answer after your initial attempts, it is recommended that you seek help from the instructor, the Q-Center or other resources. MyOpenMath is due Sunday at 11:59pm the day after the material is scheduled to be covered.

You will have **four** LatePasses to apply in the event that you miss a homework assignment. These allow for a 48 hour extension, except the last assignment

Worksheets

There are five worksheets corresponding to modules 1-5, which must be turned in by 11:59pm according to the schedule above. These worksheets must be handwritten and turned in on HuskyCT using the assignment link at the end of each module. Each student needs to submit their own work and understand what they are submitting.

You will have **two** LatePasses to apply in the event that you miss a worksheet deadline. These allow for a 48 hour extension, except the last worksheet.

Video Notes Quizzes

Instructional videos are provided for each topic and there will be a quick quiz related to the notes for each topic due by 11:59pm the day the topic is scheduled. These notes will provide necessary definitions for homework, worksheets and assessments.

Module Tests

There will be four Module Tests. They will be timed and require the use of LockDown Browser (with WebCam). You will submit your quiz in two parts (1) answers in HuskyCT in LockDown Browser and (2) work for short answer questions using the assignment link in HuskyCT. You may use a dedicated calculator and **one page of notes** written on physical paper but no other resources or electronic devices are allowed besides the device being used to take the exam.

Final Exam

There will be a timed cumulative final exam available August 13th and August 14th. You will submit your exam in two parts (1) answers in HuskyCT in LockDown Browser and (2) work for short answer questions using the assignment link in HuskyCT. You will use LockDown Browser (with WebCam) and may use a dedicated calculator and notes written on physical paper but no other resources or electronic devices are allowed besides the device being used to take the exam.

Due Dates and Late Policy

All due dates are identified in the table above. Deadlines are based on Eastern Time unless otherwise specified. *I reserve the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.*

Due to the fast-paced nature of a summer course, students will have 4 LatePasses to apply within MyOpenMath and 2 LatePasses to apply to Worksheets. LatePasses allow for a 48 hour due date extension once the request has been made. The last day to submit work for a grade is Friday August 14th by 11:59pm.

Feedback and Grades

I will make every effort to provide grades within 4 days of when an assignment is due. To keep track of your performance in the course, refer to My Grades in HuskyCT.

Note: If you think a mistake has been made in grading or in recording any grades, please bring this to the instructor's attention as soon as possible. All grades must be corrected and updated before the final exam is administered; no changes will be made after that time.

Submitting Assignments

Guided Notes, Worksheets and Exam work must be submitted using the assignment links in HuskyCT. You should use a scanner or image-to-PDF scanner application to convert your assignments to PDF files for uploading within the HuskyCT learning Modules. A browser is recommended for assignment submissions, it may not be possible to submit using the App. If you have difficulty submitting on HuskyCT, email submissions are an acceptable backup. MyOpenMath Homework answers will be submitted in the course homework page on myopenmath.com.

Weekly Time Commitment

You should expect to dedicate approximately 25 - 32 hours a week to this course. This expectation is based on the various course activities, assignments, and assessments along with the University of Connecticut's policy regarding credit hours. More information about hours per week per credit can be accessed at the Online Student website.

Grading Scale

Grade	93+	90 to 92.99	87 to 89.99	83 to 86.99	80 to 82.99	77 to 79.99	73 to 76.99	70 to 72.99	67 to 69.99	63 to 66.99	60 to 62.99	<60
Letter	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
GPA	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.7	0.0

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 activities and assessments and receive academic credit. Verification and authentication of student identity in this course will include:

1. Secure access to the learning management system using your unique UConn NetID and password.
2. Online proctoring during weekly tests and the Final Exam using Lockdown Browser with Respondus Monitor.

Information about Lockdown Browser and Respondus Monitor can be found here: https://kb.uconn.edu/space/TL/10731881788

Students with Disabilities and Special accommodations

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, Home | Center for Students with Disabilities | University of Connecticut.

The University Senate passed a motion about religious observances which stipulated that Students anticipating such a conflict should inform their instructor in writing within the first three weeks of the semester, and prior to the anticipated absence, and should take the initiative to work out with the instructor a schedule for making up missed work. For conflicts with final examinations, students should, as usual, contact Student Services.

Student Responsibilities and Resources

As a 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, which include:

- The Student Code
    - Academic Integrity
    - Resources on Avoiding Cheating and Plagiarism
- Copyrighted Materials
- Credit Hours and Workload
- Netiquette and Communication
- Adding or Dropping a Course
- Academic Calendar
- Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships
- Sexual Assault Reporting Policy

Software/Technical Requirements (with Accessibility and Privacy Information)

The software/technical requirements for this course include:

- HuskyCT/Blackboard (HuskyCT/ Blackboard Accessibility Statement, HuskyCT/ Blackboard Privacy Policy)
- Adobe Acrobat Reader (Adobe Reader Accessibility Statement, Adobe Reader Privacy Policy)
- Google Apps (Google Apps Accessibility, Google for Education Privacy Policy)
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).
- WebCam
- Scan handwritten work into a PDF

For information on managing your privacy at the University of Connecticut, visit the University's Privacy page.

Help

Frequently Asked Questions for Technical and Academic Help

Access the course using the UConn learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, you have access to support during regular business hours through the Help Center. You also have 24×7 Course Support including access to live chat, phone, and support documents.

Student Technical Skills

To be successful in this course, you will need the following technical skills:

- Use electronic mail with attachments.
- Save files in commonly used word processing program formats.
- Scan handwritten work to PDFs.
- Copy and paste text, graphics or hyperlinks.
- Work within two or more browser windows simultaneously.
- Open and access PDF files.
- Download and update computer applications (LockDown Browser)

Evaluation of Course Experience

Students will be given an opportunity to provide feedback on their course experience and instruction using the University's standard procedures, which are administered by the Office of Institutional Research and Effectiveness (OIRE).

The University of Connecticut is dedicated to supporting and enhancing teaching effectiveness and student learning using a variety of methods. The Student Experience of Teaching (SET) is just one tool used to help faculty enhance their teaching. The SET is used for both formative (self-improvement) and summative (evaluation) purposes.

Additional informal formative surveys and other feedback instruments may be administered within the course.