UCONN
UNIVERSITY OF CONNECTICUT

Math 1071Q – Section 026
Calculus for Business and Economics

Syllabus – Winter Session, 2026

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

Course and Instructor Information

Course Title: Calculus for Business and Economics
Credits: 3
Format: ONLINE (OA) Asynchronous (Course Videos are available on HuskyCT)
Prerequisites: Recommended preparation: MATH 1011Q or the equivalent, and MATH 1070Q, and a qualifying score on the math placement assessment (placement.uconn.edu/mathematics-placement). Not open to students who have passed MATH 1110Q. Only one credit for students who have passed MATH 1121Q, 1131Q, or 1151Q.
Time Zone: *All times* for due dates, student hours, etc., in this course are given in **US Eastern Time.**

Instructor: Ningwei Jiang
Pronouns: He/him;
Communications: Please feel free to message me on HuskyCT. You can also email me at ningwei.jiang@uconn.edu for any questions or concerns. I will respond within 24 hours during weekdays.
Student Hours (Week 1-3): There will be student hours several days a week. Specific times will be set the week before classes start and might be adjusted throughout the winter session. You can find them in the "Student hours and Appointments" section in HuskyCT. You can also email me at ningwei.jiang@uconn.edu to schedule a meeting.

Course Materials

Textbook: *OpenStax Calculus Volume 1: UConn Custom Business Calculus Edition. Available here: https://www2.math.uconn.edu/ClassHomePages/Math1071/Textbook2*

Students must have access to a computer with webcam to use Lockdown Browser for exams (Authentication of Students in Online Courses) and a way to submit PDFs of handwritten work.

Calculators: In general, calculators, including graphing calculators, are allowed on exams. Models that can perform symbolic manipulation (e.g. take derivatives) are not allowed.

Graphing calculators: TI 82, 83, 84, 84 plus, 85 or 86 may be used. Models TI-89 and above (including TI-Nspire) are not permitted on the exams. A graphing calculator is recommended but not required. You will need (at the least) a basic calculator that can do powers, exponentials and logarithms for exams.

Course Videos and slides: We will be using videos created and shared by Professor Katherine Hall.

HuskyCT: Additional course materials, HuskyCT homework, worksheets, exams will be available under our course at HuskyCT.

Course Description

Derivatives and integrals of algebraic, exponential and logarithmic functions. Applications to business and economics.

Course Objectives

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

1. Use mathematical models to represent various business and economics related functions, including cost, revenue, profit, and demand.
2. Understand and work with exponential and logarithmic expressions, especially as related to interest and other exponential growth problems.
3. Understand the idea of a limits and limits at infinity. Evaluate various types of limits and define concepts like asymptotes, continuity and derivatives in terms of limits.
4. Understand the derivative as the instantaneous rate of change and also the slope of the tangent line to a curve. Use the tangent line to approximate functions.
5. Evaluate the derivative of functions using standard derivative rules.
6. Understand elasticity of demand.
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 various contexts, using derivatives.
9. Evaluate both indefinite and definite integrals, using basic antiderivative rules, including substitution. This includes developing an understanding of the Fundamental Theorem of Calculus.
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 outline

Module 1: Intro and Sections 1.1-1.8 (Chapter 1)
Module 2: Sections 2.1-2.4 (Chapter 2)
Module 3: Sections 3.1-3.4, 3.6 and 3.9 (Chapter 3)
Module 4: Sections 4.1-4.3, 4.5-4.8 (Chapter 4)
Module 5: Sections 5.1-5.2, 5.3 and 5.5 (Chapter 5)

Schedule (Tentative)

Week	Sections	Assessments
1	**1.1-1.8, 2.1-2.2**	**Worksheet 1, HuskyCT Homework, Module Reflection**
2	**2.3-2.4, 3.1-3.4, 3.6, 3.9, 4.1-4.3**	**Worksheet 2, HuskyCT Homework, Module Reflection, Exam 1**
3	**4.5-4.8 5.1-5.2, 5.3, 5.5**	**Worksheet 3, HuskyCT Homework, Module Reflection Exam 2**

Course Grading and Requirements

Course Components	Weight
HuskyCT Homework	35%
Worksheets	15%
Learning Reflection	5%
Exam 1	20%
Exam 2	25%

I will post all grades on HuskyCT.

HuskyCT homework: The homework for MATH 1071Q is built directly into HuskyCT, and no access code required. HuskyCT homework is due 11:59 pm on Sunday nights each week. The recommended completion dates are listed under each module. For each homework, you have unlimited tries, but you should submit all problems on each try and you will get different problems for each attempt. Your score is based on your highest attempt.

Worksheets: There will be one worksheet each week. All worksheets must be submitted by 11:59pm on the Sunday after the material is covered. Your worksheet grade is based on two components. First, you must complete the problems to the best of your ability using your course notes and the textbook. You are welcome to use additional resources but must list these sources. Once you have completed the assignment, you should submit it to HuskyCT. Once you have submitted it, you will be given access to the solutions. You must use the solutions to check your answers and then fill out the reflection activity for each worksheet. The initial submission will be graded on completeness while the reflection will be graded based on the rubric provided in HuskyCT.

Module Reflections: At the end of each module, you will need to complete a short reflection to share your learning. These reflections are not graded for right or wrong answers—they are an opportunity for you to think critically about what you've learned, where you're confident, and where you are struggling. Full credit is given for honest, thoughtful effort and completion.

Exams: We will have two closed-book exams during weeks 2 and 3, and each will cover approximately one and a half week's course materials and is NOT cumulative. **Each exam requires Lockdown Browser with Respondus Monitor (WebCam Required).** You may use one sheet of notes during the test. You will also have access to Desmos.com. No other resources are allowed. The exams are open on Wednesday for students who want to take it earlier.

Exams will be released on HuskyCT in the Exams folder between different modules. Before you begin, make sure you have a stable internet connection and have enough time to complete the exams in one session (cannot pause and resume). Each exam will have TWO parts:

1. Multiple-Choice: 16 Questions for Exam 1 and 20 Questions for exam 2.
2. Free-Response: 2 Questions for Exam 1 and 3 Questions for exam 2.

Exam 1 is two and a half hours, and Exam 2 is three hours. For the free-response portion of each exam, you must follow the instructions to answer each question and **scan your written work for free-response questions as a single PDF file** and then upload the work file on HuskyCT.

Exam (Multiple-Choice) Retry: You may choose to retake the Multiple-Choice of each exam. The score on the retake will replace the score on the first try of that exam, if higher. The retakes must be completed by 11:59 pm on January 18.

Exam (Free-response) Resubmission: You will have an opportunity to correct and resubmit exam free response questions to earn back points. For each point lost, you can earn up to 1/2 point back. Resubmitted solutions must be completely correct and submitted to HuskyCT by January 18 in order to earn back points. Additionally, resubmitted solutions must be numbered, neatly written. Please note that while you can discuss potential corrections with classmates, final write-ups should be done in your own words.

If you are discovered cheating or using any other unapproved resources you will receive a 0% on the assessment and/or the failure in the course.

Grading Scale

Grade	Letter Grade
93-100	A
90-92.99	A-
87-89.99	B+
83-86.99	B
80-82.99	B-
77-79.99	C+
73-76.99	C
70-72.99	C-
67-69.99	D+

63-66.99	D
60-62.99	D-
<60	F

Course Policies

Communication: I will make frequent use of the Announcements tab on HuskyCT to keep you updated during the session. It is your responsibility to check your email regularly so that you know when an announcement has been posted.

Late Work: If you need to submit work late, **please email your instructor.** I will generally expect students to meet the weekly deadline and complete exams on time, but I understand that sometimes events out of your control happen. Please reach out to me, and I will do my best to work with you in a way that is consistent, compassionate, and fair. **Do not wait until the last day of the course** to discuss grade issues! The sooner I am aware of issues, the more able I will be able to help you.

Exceptions to this policy will only be made under extenuating circumstances, and on a case-by-case basis.

There is NO extra credit in this course.

Exam Makeup Policy: Since this is an online course and you are given enough flexibility for the tests, NO exam make up will be granted.

Feedback and Grades: HuskyCT Homework are graded automatically on HuskyCT. The grades for worksheets will be posted within 48 hours after the original due date. Exam free-response submissions will be returned with comments within 24 hours after the set deadline.

All work must be submitted by 11:59 PM on January 18, 2026. Any missing assignments after this date will receive a 0 with no exceptions.

Weekly Time Commitment

You should expect to dedicate 42 - 56 hours a week to this course. This expectation is based on the various course activities, assignments, and assessments and the University of Connecticut's policy regarding credit hours. More information related to hours per week per credit can be accessed at the Online Student website.

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 exams using Lockdown Browser with Respondus Monitor.

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

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

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. 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/.

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)

Software/Technical Requirements (with Accessibility and Privacy Information)

The software/technical requirements for this course include:

- Equipment Recommendations (https://remotework.uconn.edu/equipment-recommendations/)
- 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)
- Microsoft Office (free to UConn students through uconn.onthehub.com) (Microsoft Accessibility Statement, Microsoft Privacy Statement)
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).
- WebCam

Privacy Statement: For information on managing your privacy at the University of Connecticut, visit the University's Privacy page. NOTE: This course has NOT been designed for use with mobile devices.

Help

Technical and Academic Help provides a guide to technical and academic assistance.

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.

Minimum 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.
- Copy and paste text, graphics or hyperlinks.
- Work within two or more browser windows simultaneously.
- Open and access PDF files.

Academic Integrity

Learning math is a process, and it is okay if that process includes challenges. The best way to grow as a learner is to work through problems on your own and take ownership of your understanding—even when it's hard. In our class, you are expected to follow the university's academic honesty policies, but also to take pride in your own progress. That means:

- Doing your own work and showing your own reasoning.
- Citing any sources you use, including explanations from websites, textbooks, or other people.
- Using tools like calculators, online resources, or AI (such as ChatGPT) **only in ways that support your learning**—not as a substitute for doing the work yourself.

If you're ever unsure about what's allowed—or if you're feeling stuck—please reach out and utilize the student hours. You don't have to go through it alone. I'm here to help, and there are also great campus and online resources. It's always better to ask for help than to risk your integrity.

This is a space where effort and honesty matter more than perfection.

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 Evaluation 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.