Math 1070Q-010/011
Mathematics for Business and Economics
Summer Session 1, 2026

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 Information

Course Title: Mathematics for Business and Economics
Credits: 3
Format: Online Asynchronous
Prerequisites: Recommended Preparation: Math 1010 or the equivalent
Professor: Nicole Massarelli, PhD (You can call me Nicole or Dr. Massarelli)
Pronouns: (she/her/hers)
Email: nicole.massarelli@uconn.edu
Teaching Assistant: Chinmay Dharmendra
Email: chinmaymd@uconn.edu
Office Hours/Availability: There will be office hours several days a week. Specific times will be set the week before classes start and might be adjusted throughout the semester to reflect the needs of students. You can find them posted on HuskyCT.

Welcome!

Welcome to Math 1070Q! My name is Nicole and I am excited to work with you this summer! I am an applied mathematician by training but have always enjoyed teaching and sharing my love of math. This course is designed to help you develop skills that you will use in business and economics but I also hope that you will take away some general problem solving skills as well. This is an asynchronous online course, but I hope you will all attend virtual office hours and interact with the course material each week. I am excited to get to know you and help you learn the material!

Course Materials

Required course materials should be obtained within the first week of class. Students will be given a free trial period at the start of the session for the online homework.

Required textbooks are available for purchase through the UConn Bookstore (or use the Purchase Textbooks tool in HuskyCT). You may also get access directly from Cengage through the WebAssign link.

Required Materials:

- A*pplied Finite Mathematics* by Edmond C. Tomastik and Janice L. Epstein (bundled with WebAssign Code)

You can also buy the Access code with e-book directly from Cengage.

Course Description

Linear equations and inequalities, exponents and logarithms, matrices and determinants, linear programming. Applications.

Course Objectives

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

1. Understand the basics of sets and know how to find the size of sets.
2. Know how to solve various probability problems including understanding conditional probability and Bayes' Theorem.
3. Understand how permutations and combinations work and how they are related to probability.
4. Know how to calculate values for Bernoulli Trials.
5. Understand what random variables are and how to calculate measures of central tendency and spread. Understand the normal distribution.
6. Work with simple and compound interest problems and annuities and amortization.
7. Work with and create simple mathematical models.
8. Know how to solve systems of linear equations, including using linear programming.
9. Work with matrices, carry out matrix multiplication and Gaussian Elimination.
10. Use matrices to solve systems of equations.

Course Outline (and Calendar)

Module 1: Sets and Probability (Chapter 4)
Module 2: Counting and Probability (Chapter 5)
Module 3: Probability Distributions and Statistics (Chapter 6)
Module 4: Finance (Chapter F)
Module 5: Linear Programing (1.1,1.2 and Chapter 3)
Module 6: Systems of Equations and Matrices (1.3-1.4 and Chapter 2)

Schedule

Week/ Dates	Module	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1: 6/1-6/6	1					WebAssign Due (4.1-4.3)		WebAssign Due (4.4-4.7)
2: 6/8-6/13	2	Wkst 1 Due **Test 1 (Module 1)**				WebAssign Due (5.1-5.3)		WebAssign Due (5.4 and 6.1-6.2)
3: 6/15-6/19	3 and 4	Wkst 2 Due **Test 2 (Module 2)**				Juneteenth Holiday HW **Due Saturday**	WebAssign Due (6.3,6.4)	WebAssign Due (F.1-F.4)
4: 6/22-6/26	5	Wkst 3 Due **Test 3 and 4 (Module 3 and 4)**				WebAssign Due (1.1-1.2)		WebAssign Due (3.1,3.2, 3.3)
5: 6/29-7/3	6	Wkst 4 Due **Test 5 (Module 5)**				WebAssign Due (2.1, 2.2, 1.3,1.4) **Final Exam (Cumulative)**		

Course Requirements and Grading

Summary of Course Grading:

Course Components	Weight
Online Homework	20%
Worksheets	15%
Tests	40%
Final Exam	25%

Online Homework
Online homework for MATH 1070Q is assigned and completed using WebAssign. **WebAssign must be accessed through HuskyCT**. To get to WebAssign, go to the HuskyCT site and click the WebAssign Access Link in the Course Information Module. This will take you directly to the WebAssign assignments for your class. WebAssign homework is due 11:59pm on the day they are due (see above). If you finish them early at least 24 hours early you will earn 5% extra credit. homework is accepted (up to 1 week late) with a 20% penalty. **However the last day to complete any graded work is the last day of class, July 3rd.**

Worksheets
There are worksheets corresponding to modules 1-4 which must be turned in the Monday after that module is finished. You can work together on these worksheets but each student needs to submit their own work and understand what they are submitting. You may be asked to explain what you've written on any assignment and should be able to fully explain any work submitted as your own. No late worksheets will be accepted.

Tests
There is a test on the previous week's material each Monday. (On Monday of week 4, there are two tests. By having two shorter tests instead of one longer one, you can focus on one module at a time. **Each test requires Lockdown Browser with Respondus Monitor (WebCam Required).** You may use one sheet (front and back) of notes during the test. You will also have access to Desmos.com. No other resources are allowed. The tests are open from Friday (or earlier) through Monday for those students who want to take it earlier.

Final Exam
The final exam will be on Friday, July 3rd. It requires Lockdown Browser with Respondus Monitor (WebCam Required). You may use an unlimited number of pages of notes. You will also have access to Desmos.com. No other resources are allowed. The final exam will be open on July 2nd and July 3rd. If your score on the final exam is higher than your lowest midterm test grade, your score on the final exam will replace that score.

Grading Scale

Grade	Letter Grade	GPA
93-100	A	4.0
90-92.99	A-	3.7
87-89.99	B+	3.3
83-86.99	B	3.0
80-82.99	B-	2.7

77-79.99	C+	2.3
73-76.99	C	2.0
70-72.99	C-	1.7
67-69.99	D+	1.3
63-66.99	D	1.0
60-62.99	D-	0.7
<60	F	0.0

Due Dates and Late Policy

All course due dates are identified in the table above. Specifics will be given in HuskyCT. Deadlines are based on Eastern Time; if you are in a different time zone, please adjust your submission times accordingly. The instructor reserves the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.

Late WebAssign can be submitted up to a week late with a 20% penalty but must be received by the date of the final exam. No late worksheets or exams will be accepted.

Feedback and Grades

I will make every effort to provide feedback and 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.

Weekly Time Commitment

You should expect to dedicate 25.2 - 33.6 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 in the Tips for Success section.

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

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. 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/.

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:

- 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
- Ability to scan handwritten work in as a PDF (apps like CamScanner are acceptable)

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 is completely facilitated online using 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.
- Create PDF files of handwritten work.

University students are expected to demonstrate competency in Computer Technology. Explore the Computer Technology Competencies page for more information.

Evaluation of the Course

Students will be provided an opportunity to evaluate instruction in this course using the University's standard procedures, which are administered by the Office of Institutional Research and Effectiveness (OIRE).

Additional informal formative surveys may also be administered within the course as an optional evaluation tool.