Math 1070Q — Mathematics for Business and Economics (Fall 2020)

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Instructors

Course Coordinator (Storrs): Michael Biro

Prerequisites:

Recommended preparation: MATH 1010 or the equivalent.

Textbook:

Applied Finite Mathematics by Edmond C. Tomastik and Janice L. Epstein

Our textbook is available bundled with a WebAssign code at the UConn Bookstore. Click here .pdf to see information on which of the available bundles is right for you.

HuskyCT:

You can access HuskyCT by going to **lms.uconn.edu**.

Homework, WebAssign, and Piazza:

WebAssign: Online homework for MATH 1070 are assigned and completed using WebAssign. To get to WebAssign, go to the HuskyCT site and click the link on the left navigation menu which says “WebAssign”.

WebAssign homework are due 11:59pm on the Friday of the week they cover. We strongly recommend that you do not leave your homework to the last minute. WebAssign homework that is submitted at least 24 hours before the due date will earn extra credit (25% of the question value).

Homework: There will be homework assigned for each section of the text in WebAssign. Be sure to complete the homework assignments by the posted due dates. It is your responsibility to complete the homework assignments on time, and completing assignments early will earn extra credit. Your lowest two homework scores will be dropped at the end of the term.

You have 5 attempts to answer each non-multiple choice homework question. 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 a couple of attempts, ask for help from your professor or TA. We’re here to help! You might also find help at office hours, the course discussion board on Piazza, and/or at the Q-Center.

Piazza: We will use Piazza as a course discussion/participation tool. Piazza allows students and instructors to post questions, answers, and comments in a Wiki type format. Students are encouraged to edit the “Student Answer” for a question in order to help one another understand the material. Instructors will also be active in posting an “Instructor Answer”. Further discussions are also allowed in addition to the answers.

You can post questions regarding your homework, studying, or anything else that pertains to issues with concepts within each topic. The system is highly catered to getting you help fast and efficiently from classmates, the TAs, and myself. Rather than emailing questions to the teaching staff, I encourage you to post your questions on Piazza. You will be expected to follow basic forum etiquette, and to post thoughtful and relevant questions/answers/comments.

If you have any problems or feedback for the developers, email team@piazza.com or contact Piazza Support by clicking the gear icon in the top right corner of the Piazza page.

Exams:

There will be 5 short midterm exams held during the semester, plus a cumulative final exam. Exams will be held online on HuskyCT, and you will be responsible for having a computer with a webcam and Respondus Lockdown Browser. Please follow the instructions ~~here~~ ~~.pdf~~ to install and use Lockdown Browser.

Exams are open book and open notes. These must be on paper, no electronic devices (other than the computer running Lockdown Browser) are allowed. You will also need to have your ID available for each exam.

A practice test will be posted to HuskyCT before each exam. Please use the practice test to review the material, the exam format, and to make sure your Lockdown Browser and webcam setup are working correctly. You may retake the practice test as many times as you’d like, until the exam begins. Scoring 100% on a practice test will earn 5 extra credit points for the corresponding exam.

Calculator Policy:

A scientific calculator will be provided in Lockdown Browser. You may not use any other device for the exams.

Late Work Policy:

Homework extensions will not be granted and there will be no makeup exams, except for extenuating circumstances. However, two homework scores will be dropped at the end of the semester to accommodate any issues that may arise. It is important that you manage your time effectively to complete the homework before it is due. Choosing not to do so is up to you, but there will not be any opportunities to recover missed points.

Review Sessions and the Q Center:

We will be holding regularly scheduled office hours and review sessions on HuskyCT throughout the semester. In addition, questions can also be asked on Piazza at any time.
The Q Center offers additional help for MATH 1070Q, with tutors available nearly every day.

Grading:

Online Homework	WebAssign	15%
Exams:	HuskyCT + Lockdown Browser	12% Each
Final Exam:	HuskyCT + Lockdown Browser	25%

Note: If you think a mistake has been made in grading or in recording any grades, please bring this to your 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.

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

Resources for Students Experiencing Distress

The University 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.

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.

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**.**

Here are some helpful links: Dean of Students Office, Academic Achievement Center, Writing Center, Quantitative Learning Center, Center for Students with Disabilities, ~~Title IX Office~~, Student Health and Wellness — Mental Health

Accommodations for Illness or Extended Absences

Please stay home if you are feeling ill and please go home if you are in class and start to feel ill. If illness prevents you from attending class, it is your responsibility to notify your instructor as soon as possible. You do not need to disclose the nature of your illness, however, you will need to work with your instructor to determine how you will complete coursework during your absence.

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.

COVID-19 Specific Information: People with COVID-19 have had a wide range of symptoms reported – ranging from mild symptoms to severe illness. These symptoms may appear 2-14 days after exposure to the virus and can include:

- Fever,
- Cough,
- Shortness of breath or difficulty breathing
- Chills
- Repeated shaking with chills
- Muscle pain
- Headache
- Sore throat

- New loss of taste or smell

Additional information including what to do if you test positive or you are informed through contract tracing that you were in contact with someone who tested positive, and answers to other important questions can be found here: https://studenthealth.uconn.edu/updates-events/coronavirus/

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, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.

Student Athletes and Students with Disabilities should inform your instructor of your commitments as an athlete, any special needs that you have, etc. within the first three weeks of the semester. You will be expected to have a letter from the Athletics Department or the Center for Students with Disabilities.

The University Senate passed a motion on 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 the Dean of Students.

Policy Against Discrimination, Harassment and Related Interpersonal Violence

The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community – students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. In addition, inappropriate amorous relationships can undermine the University's mission when those in positions of authority abuse or appear to abuse their authority. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate amorous relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. Additionally, to protect the campus community, all non-confidential University employees (including faculty) are required to report sexual assaults, intimate partner violence, and/or stalking involving a student that they witness or are told about to the Office of Institutional Equity. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help. More information is available at equity.uconn.edu and titleix.uconn.edu.

Statement on Absences from Class Due to Religious Observances and Extra-Curricular Activities

Faculty and instructors are expected to reasonably accommodate individual religious practices unless doing so would result in fundamental alteration of class objectives or undue hardship to the University's legitimate business purposes. Such accommodations may include rescheduling an exam or giving a make-up exam, allowing a presentation to be made on a different date or assigning the student appropriate make-up work that is intrinsically no more difficult than the original assignment. Faculty and instructors are strongly encouraged to allow students to complete work missed due to participation in extra-curricular activities that enrich their experience, support their scholarly development, and benefit the university community. Examples include participation in scholarly presentations, performing arts, and intercollegiate sports, when the participation is at the request of, or coordinated by, a University official. Students should be encouraged to review the course syllabus at the beginning of the semester for potential conflicts and promptly notify their instructor of any anticipated accommodation needs. Students are responsible for making arrangements in advance to make up missed work.

For conflicts with final examinations, students should contact the Dean of Students Office. Faculty and instructors are also encouraged to respond when the Counseling Program for Intercollegiate Athletes (CPIA) requests student progress reports. This will enable the counselors to give our students appropriate advice.

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Tentative Outline

Week #	Week Dates	Section	Topic
1	8/31 – 9/4	4.1	Introduction to Sets
2	9/7 – 9/11	4.2	The Number of Elements in a Set
		4.3	Sample Spaces and Events
3	9/14 – 9/18	4.4	Introduction to Probability
		4.5	Rules for Probability
4	9/21 – 9/25	4.6	Conditional Probability
		4.7	Bayes' Theorem
5	**10/1**	**Ch 4**	**Exam 1 (10/1 from 6-7pm)**
5	9/28 – 10/2	5.1	Multiplication Principle and Permutations
		5.2	Combinations
6	10/5 – 10/9	5.3	Probability and Counting
		5.4	Bernoulli Trials
7	**10/15**	**Ch 5**	**Exam 2 (10/15 from 6-7pm)**
7	10/12 – 10/16	6.1	Random Variables
		6.2	Measures of Central Tendency
8	10/19 – 10/23	6.3	Measures of Spread
		6.4	Normal Distributions
9	**10/29**	**Ch 6**	**Exam 3 (10/29 from 6-7pm)**
9	10/26 – 10/30	F.1	Simple Interest and Discount
		F.2	Compound Interest
10	11/2 – 11/6	F.3	Annuities
		F.4	Present Value of Annuities and Amortization
11	**11/12**	**Ch F**	**Exam 4 (11/12 from 6-7pm)**
11	11/9 – 11/13	1.1	Mathematical Models
		1.2	Systems of Linear Equations
		1.3	Gaussian Elimination
12	11/16 – 11/20	1.4	Systems of Equations with Non-Unique Solutions
		2.1	Introduction to Matrices
		2.2	Matrix Multiplication
13	**11/23-11/27**		**Thanksgiving Break**
14	**12/3**	**Ch 1, 2**	**Exam 5 (12/3 from 6-7pm)**
14	11/30 – 12/4	3.1	Linear Programming
		3.2	Graphing Linear Inequalities
		3.3	Solving Linear Programming Problems
15	**TBD**	**Cumulative**	**Final Exam (TBD)**