UCONN

Math Courses

Math 1070Q — Mathematics for Business and Economics (Spring 2024)

Home

Schedule

Exam Info

Course Coordinator (Storrs): Michael Biro

Section 010: Michael Biro

Section 030: Luan Doan

Prerequisites:

Recommended preparation: MATH 1010 or the equivalent.

Description:

Linear equations and inequalities, matrices, systems of linear equations, and linear programming; sets, counting, probability and statistics; mathematics of finance; applications to business and economics.

Learning Objectives:

Describe the relations between sets, and determine the sizes of different combinations of sets.

Utilize the rules of probability and calculate the probabilities of different combinations of events.

Apply the multiplication principle to compute the number of ways a specified choice can be made out of a number of options.

Recognize the types of random variables, and calculate their fundamental statistics.

Evaluate interest earned or owed, and analyze the values of loans, funds, and investments.

Use linear equations to model situations with business applications and solve systems of linear equations.

Identify matrix properties and perform operations on matrices.

Solve for the optimal values of linear programs.

Textbook:

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

Our textbook is available bundled with a WebAssign code in the Bookstore Bundle or at the UConn Bookstore. You may also purchase access directly from Cengage. Click here .pdf to see information on which of the available options is right for you.

HuskyCT:

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

Course announcements will be made in HuskyCT, please follow this link to make sure your notifications are set so you do not miss any important information.

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.

Edit

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Week #	Week Dates	Section	Topic
1	1/16 – 1/19	4.1	Introduction to Sets
2	1/22 – 1/26	4.2	The Number of Elements in a Set
		4.3	Sample Spaces and Events
3	1/29 – 2/2	4.4	Introduction to Probability
		4.5	Rules for Probability
4	2/5 – 2/9	4.6	Conditional Probability
		4.7	Bayes' Theorem
Exam 1 covering Chapter 4 (4.1 – 4.7) on Tuesday 2/13			
5	2/12 – 2/16	5.1	Multiplication Principle and Permutations
		5.2	Combinations
6	2/19 – 2/23	5.3	Probability and Counting
		5.4	Bernoulli Trials
Exam 2 covering Chapter 5 (5.1 – 5.4) on Tuesday 2/27			
7	2/26 – 3/1	6.1	Random Variables
		6.2	Measures of Central Tendency
8	3/4 – 3/8	6.3	Measures of Spread
		6.4	Normal Distributions
9	3/11 – 3/15	–	Spring Recess
Exam 3 covering Chapter 6 (6.1 – 6.4) on Tuesday 3/19			
10	3/18 – 3/22	F.1	Simple Interest and Discount
		F.2	Compound Interest
11	3/25 – 3/29	F.3	Annuities
		F.4	Present Value of Annuities and Amortization
Exam 4 covering Appendix F (F.1 – F.4) on Tuesday 4/2			
12	4/1 – 4/5	1.1	Mathematical Models
		1.2	Systems of Linear Equations
13	4/8 – 4/12	1.3	Gaussian Elimination
		1.4	Systems of Equations with Non-Unique Solutions
14	4/15 – 4/19	2.1	Introduction to Matrices
		2.2	Matrix Multiplication
Exam 5 covering Chapters 1 and 2 (1.1 – 1.4 and 2.1 – 2.2) on Tuesday 4/23			
15	4/22 – 4/26	3.1	Linear Programming
		3.2	Graphing Linear Inequalities
		3.3	Solving Linear Programming Problems
Final Exam covering all topics (Chapters 1,2,3,4,5,6,F) on TBD			