MATH 1070Q - 703
Mathematics for Business and Economics.
Fall 2026

Syllabus

Syllabus Information may be subject to change. The most up-to-date syllabus is located within the course in HuskyCT. Significant changes will be communicated to the class.

- **Instructor:** Igor Ferdman
- **Office:** 504
- **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.
- **Prerequisites:** Recommended preparation: MATH 1011Q or equivalent. Not open for credit to students who have passed MATH 1132Q, 1152Q, or 2142Q.
- **Office Hours:** Tuesday from 3 p.m.
- **Email:** igor.ferdman@uconn.edu.
- **Textbook:** Applied Finite Mathematics**,** Custom Edition by E. Tomastik with Access Code

  These course materials are included as part of your Husky Book Bundle program. Please visit the bookstore homepage to learn more.

- **Class Meeting Times:** Tuesday 4:00 p.m. – 6:30 p.m.
- **Anticipated Coverage of the text:** 1.1 – 1.4, 2.1 – 2.4, 3.1 – 3.3, 4.1 – 4.7, 5.1 – 5.4, 6.1 – 6.4 and F1 – F4.

Course Objectives

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

1. Understand the fundamentals of sets and determine the cardinality (size) of sets.
2. Solve a variety of probability problems, including those involving conditional probability and Bayes' Theorem.

3. Understand permutations and combinations and their applications to probability.
4. Calculate probabilities involving Bernoulli trials.
5. Understand random variables and calculate measures of central tendency and dispersion, as well as understand and apply the normal distribution.
6. Solve problems involving simple and compound interest, annuities, and amortization.
7. Develop and work with simple mathematical models.
8. Solve systems of linear equations and apply linear programming techniques.
9. Perform matrix operations, including matrix multiplication and Gaussian elimination.
10. Use matrices to solve systems of linear equations.

- **Exams and in-class quizzes:** There will be 2 midterm exams and a comprehensive final exam. The final exam will be held in the regularly scheduled classroom unless otherwise notified by the instructor. Quizzes will be given throughout the semester. Quiz dates will be announced in advance. All work must be shown. Answers without supporting work or explanation will not receive credit.
  All quizzes and exams will be closed-book and closed-notes. However, students may use one page of notes (front and back).
  There will be no make-up quizzes or exams for missed work except in justified circumstances. Documentation may be required. The instructor reserves the right determine whether a make-up exam or quiz will be permitted.

- **Online Homework and Quizzes.** Online homework and quizzes are assigned and completed using WebAssign. To access your homework online you must go to Husky CT.
  Please note that many students have experienced problems using WebAssign with Internet Explorer or Safari. We recommend that you use Firefox or Chrome.
  You will have **two weeks of free access** to WebAssign, which includes an e-book, so you can get started right away in case you need some time to arrange to buy a textbook with the access code.

- **Worksheets.** You are encouraged to 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.

- **In-class assignments.** In-class assignments will be given in person during class and will be graded for correctness and completeness.
  There will be no make-up opportunities for missed in-class assignments. However, the two lowest in-class assignment grades will be dropped when calculating the final grade.

- **Due dates:** All due dates for WebAssign are identified in WebAssign. *The instructor reserves the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.*

- **Grading:**
  Minimum averages have been established for each of these grades:
  A 93% A– 90% B+ 87% B 83% B– 80% C+ 77% C 73% C– 70% D+ 67% D 63% D– 60%

  To assign grades, I will form a weighted sum of all the grades you receive throughout the semester. The weighting will be:

Midterm exams	10% each
Quizzes (in class)	15 %
Worksheets	10%
Quizzes (Online)	10 %
In class assignments	10%
Homework assignments –	20%
Final exam –	15%

  There will be a curve used in determining grades. Individual items (exams and worksheets) will be curved separately. This curve will be influenced mostly by the class performance. Overall course grades will **not be curved.**

- **Expectations:** Students are expected to attend all classes. Before each class, you should both review the material from recent sections and read the sections to be discussed that day. This will allow you to understand the presentation of new material. If you must miss a class, I expect you to find out what happened, either from me, or one of your classmates. You are expected to put in at least 2 hours of work outside of class for every hour in class. Class participation is an important part of the classroom experience.

- **Special notes**
  - Students are not allowed to leave the room and then return while taking a test or exam unless the instructor explicitly grants permission. In case of an emergency, please check with the instructor.
  - We will use the TI-84 Plus graphing calculator in class.
  - If you feel there was an error in grading or something is unfair, feel free to discuss it with me after class.

- **Generative AI use**

  All work submitted in this course must comply with UConn's Academic, Scholarly, and Professional Integrity and Misconduct Policy and, for undergraduate courses, Appendix A of The Student Code. Students are

responsible for submitting their own work, acknowledging the contributions of others, and avoiding unauthorized assistance.
You may not use generative artificial intelligence tools to generate, revise, summarize, translate, analyze, solve, or otherwise contribute to work submitted in this course unless an assignment explicitly permits their use.
Standard spelling and grammar check, accessibility tools, and any tool approved as part of an academic accommodation are not restricted by this statement.

How to Succeed in this Course

All students can succeed in this course, and we are here to help you along the way. Please do not hesitate to ask questions or attend office hours. All questions are important here. Success in this course program depends heavily on your personal health and well-being. Recognize that stress is an expected part of the college experience, and it often can be compounded by unexpected setbacks or life changes outside the classroom. Your teaching assistants and I strongly encourage you to reframe challenges as an unavoidable pathway to success. Reflect on your role in taking care of yourself throughout the semester, before the demands of exams and projects reach their peak. Please feel free to reach out to me about any difficulty you may be having that may impact your performance in your courses or campus life as soon as it occurs and before it becomes too overwhelming. In addition to your academic advisor, I strongly encourage you to contact the many other support services on campus that stand ready to assist you.

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 which include:

- Absences from Final Examinations
- Class Attendance
- Credit Hour
- People with Disabilities, Policies & Procedures
- Discrimination, Harassment and Related Interpersonal Violence, Policy Against
- The Student Code
- Academic, Scholarly, and Professional Integrity and Misconduct (ASPIM) Policy
- Academic Misconduct Procedures for Instructors

Policy Against Discrimination, Harassment and Related Interpersonal Violence

The University is committed to maintaining a safe and non-discriminatory learning, living, and working environment for all members of the University 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 responsible employees (including faculty), as outlined in the Policy Against Discrimination, Harassment and Related Interpersonal Violence, are required to report to the Office of Institutional Equity any information that they receive related to sexual assaults, intimate partner violence, and/or stalking involving a student. *An exception to this reporting exists if students disclose information as a part of coursework submitted to an instructor in connection with a course assignment. Even in the absence of such obligation, all Employees are encouraged to contact OIE if they become aware of information that suggests a safety risk to the University community or any member thereof.* 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, including confidential and exempt employee resources available for support and assistance, can be found at equity.uconn.edu and titleix.uconn.edu.

People 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 at (860) 486-2020.

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.