Chris Kmiecik
Spring 2019
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Course Description

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

Textbook

Applied Finite Mathematics by Edmond C. Tomastik and Janice L. Epstein (1st Edition)

You will need to purchase a WebAssign access code directly from WebAssign and obtain a copy of the text electronically through WebAssign. Alternatively, you could purchase a hard copy of the text. UConn.cengage 9305 7595

Course Objectives

- Understanding and application of practical mathematics.
- Translating real-life problems into mathematical format (and then solving them).
- Independent learning.

Attendance

In accordance with senate rules, students are not required to attend class, and faculty may not reduce a student's grade simply because of an absence. Because of the interactive nature of discussions during the class, time will not be taken away from other students to repeat discussion on material for students not in attendance.

Students with a known conflict with class will make the instructor aware of such conflict prior to missing a class. Accommodations will be made for students with a reasonable excuse (e.g., religious holidays, extra-curricular activities, and emergencies). If the instructor is not notified in advance, it will be treated as an absence

The exam, test and quizzes will be scheduled and announced prior to being administered.

Grading

Course grade will be based on assessment in the following areas:

- Homework – 25%
- Exams – 40%
- Quizzes – 25%
- Class participation – 10%

Homework and Quizzes

Homework and quiz due dates are announced well in advance. Absolutely no assignment will be accepted past the deadline. However, up to two homework assignments can be missed without penalty and the lowest two quiz grades will not be included in your quiz average.

Homework assignments are graded as complete/incomplete. In order to receive a grade of complete, you need to score at least 70% on the WebAssign assignment. Homework will be reviewed at the beginning of the week. If you volunteer to show the solution to a problem to the class, you will receive a grade of completed on that assignment. If you are chosen to present the solution to the class, you will receive an additional point for completion of homework. The maximum score for homework is 100%.

The idiosyncrasies with WebAssign and the very particular way the computer will accept answers is recognized. In the event you come across the scenario where you believe you have entered the correct answer but WebAssign will not accept your answer, you can request the instructor to manually a specific problem through a WebAssign message. The instructor can manually review your answer and if consistent with the correct answer, provide credit for that problem (Note: This is the only circumstance to use WebAssign. Email the instructor at the email above for all other matters).

Exams and Final

Exams will be given during class. A week is set aside for each exam to allow for any over-run in the schedule and to allow one full class period for review prior to the exam. Exams will be closed book but a formula sheet will be provided in advance of the exam.

The final exam will be optional. The final exam will be comprehensive. If you take the final exam and score higher than any exam during the semester, any semester exam score that is lower than your final exam score will be replaced with your final exam score. If you score lower than the exams taken during the semester, your exam scores will not be changed.

Class Participation

At the end of the semesters, students will be qualitatively assessed for their contributions to the overall classroom experience for all students in the class. This includes appropriate etiquette and participation in discussions that enhance the learning experience for all students. Students showing exceptional knowledge of the material and ability and willingness to work well with others will have their efforts reflected in their participation grade.

Calculator Policy

A scientific or graphing calculator is allowed for all exams, quizzes, and homework (For instance a TI-84 or equivalent). You can use a computer with Excel on it. If you use a computer during an exam, you will need to be positioned in such a way to allow the instructor to see your screen at all times. You will **not** be able to use the calculator on your phone during an exam.

Getting Help

Additional help is available from the instructor, the student support services, and the Academic Center. The instructor will be available during the following times:

- After class
- Before class with prior scheduling
- 0700-0900 M/W/F with prior scheduling

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Schedule

Week	Section	Topic
23 Jan	1.1	Course introduction Mathematical Models
28 Jan	1.2	Systems of linear Equations
	1.3	Gauss Elimination for system of Linear Equations
	1.4	System of Equations with Non-Unique Solutions
4 Feb		*Add /Drops close*
4 Feb	F1	Simple interest and discount
	F2	Compound interest
	F3	Annuities
	F4	Present value of Annuities and Amortization
11 Feb		**Exam I**
18 Feb	3.1	Linear Programming Problems
	3.2	Graphing Linear Inequalities
25 Feb	3.3	Graphical Solutions of linear programming problems
	2.1	Introduction to Matrices
1 Mar		*Mid-semester grades due*
4 Mar	2.2	Matrix Multiplication
	2.3	Inverse of a Square Matrix
11 Mar		**Exam II**
18 Mar		Spring Break
25 Mar		*Fall 2019 class registration begins*
25 Mar	4.1	Introduction to sets
	4.2	The number of elements in a set
	4.3	Sample Spaces and Events
1 Apr		Last day for drop or convert to pass/fail
1 Apr	4.4	Basic Probability
	5.1	Multiplication Principle and Permutations
	5.2	Combinations
	4.5	Rules for Probability
8 Apr	4.6	Conditional Probability
	4.7	Bayes' Theorem
	5.3	Probability Applications of Counting Principles
15 Apr		**Exam III**
22 Apr	6.1	Random Variables and Histograms
	6.2	Measure of Central Tendency
	6.3	Measure of Spread
	6.4	Normal Distribution
29 Apr		**Exam IV**
6 May		**Optional Final Exam**

UCONN Policies:

- **Honor Code**
  UCONN has exceptionally high expectations for its students, both scholastically and ethically. As a UCONN student, it is your job to uphold the course's honor code, *both by your own actions and by reporting violations*.

  Student problem sets and exam solutions are to represent the sole intellectual effort of the student submitting the work. In particular, this precludes usage or adaptation of material from the internet, peers, etc. Students are encouraged to collaborate on lab assignments; the final submitted product, however, must be prepared by the student submitting the work.

  Plagiarism and academic misconduct are extremely serious, and will be aggressively pursued by course staff according to University regulations. See http://community.uconn.edu/the-student-code-preamble/

- **Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships**
  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 Romantic 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 Romantic relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. (More information is available at http://policy.uconn.edu/?p=2884.)

- **Sexual Assault Reporting Policy**
  To protect the campus community, all non-confidential University employees (including faculty) are required to report assaults they witness or are told about to the Office of Diversity & Equity under the Sexual Assault Response Policy. 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 http://sexualviolence.uconn.edu/.)

- **Students with Disabilities**
  The Center for Students with Disabilities(CSD) at UConn provides accommodations and services for qualified students with disabilities. If you have a documented disability for which you wish to request academic accommodations and have not contacted the CSD, please do so as soon as possible. The CSD is located in Wilbur Cross, Room 204 and can be reached at (860) 486-2020 or at csd@uconn.edu. Detailed information regarding the accommodations process is also available on their website at www.csd.uconn.edu