Math 1070Q · Fall 2012

Please check both of the websites below for any updates.

Outline

Instructor:	David Ferrone Robert Heffernan
Websites:	David Ferrone Robert Heffernan
Meeting Times & Locations:	Lecture 010: Tues/Thurs 8:00 - 9:15 in CB101 (Ferrone) Lecture 050: Tues/Thurs 12:30 - 1:45 in CB102 (Ferrone) Lecture 030: MWF 2:00 - 2:50 in ARJ 105 (Heffernan) Lecture 070: MWF 3:00 - 3:50 in ARJ 105 (Heffernan)
Contact Information:	E-mail: david.ferrone@uconn.edu robert.heffernan@uconn.edu Website: http://www.math.uconn.edu/~ferrone/ http://www.math.uconn.edu/~heffernan/
Textbook:	*Applied Finite Mathematics*, by Tomastik and Epstein
Calculator Policy:	Graphing calculators are not necessary, but a calculator capable of computing combinations/permutations will be required at some point. The homework will require a calculator, as will some questions in class.
Grading Policy:	Your grade will be calculated as follows:

Homework	15%
Quizzes	10%
Exam 1 (Fri Oct 12, 3-5pm)	25%
Exam 2 (Fri Nov 16, 3-5pm)	25%
Final Exam	25%

Homework: Homework will be assigned and graded via Webassign. You will need a class key (of the form UConn 1234 5678) which depends on your section, and your TA will provide this. You will need to purchase an access code online at webassign.com. (Choose the basic content option, which should be $19.95 for the semester.)

The fastest way to fail a class is to not do the homework. The best way to get a good grade in a class is to do the homework soon, often, and repeatedly. You should be spending (at least) as much time on the homework as you do in class. Please feel free to ask me or your TA questions to make sure you've understood the homework questions. Over a few weeks, after you've done the problems two or three times, you should be able to do them quickly and without having to think about the approach.

Exams: There are two common exams (which will take place on Fridays from 3-5 PM) and a final exam. No make up exams will be allowed without a documented excuse and approval prior to the exam. No books or notes are allowed during any exams.

Quizzes: We will give short quizzes (10-15 minutes) during discussion sessions. There will be no make up quizzes. In the event of a *documented* illness or emergency, a quiz may be dropped.

Attendance: Attending each lecture is strongly encouraged. You are responsible for all material presented in class.

Classroom Behavior: Please be respectful of others during lecture. Remember to turn off your cell phone or set it to silent mode before the start of class. Do not use headphones, sleep, or read during class. If you feel that you have something better to do, just don't come to class.

Academic Integrity: Academic misconduct of any kind will not be tolerated. Cheating on any assignment will result in a grade of zero for that assignment, and a possible fail for the entire course. For a full explanation of the policies, see the following web page: http://www.sp.uconn.edu/~ml201vc/misconduct.html.

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Tentative Outline

(*Applied Finite Mathematics*, by Tomastik & Epstein)

Week	Section	Topic
1	1.1	Mathematical Models
	1.2	Systems of linear Equations
2	3.1	Linear Programming Problems
	3.2	Graphing Linear Inequalities
3	3.3	Graphical Solutions of linear programming
	4.1	Introduction to sets
4	4.2	The number of elements in a set
	4.3	Sample Spaces and Events
5	4.4	Basic Probability
	5.1	Multiplication principles and Permutations
6	5.2	Combinations
	4.5	Rules of Probability
7		Review for Exam I
		Exam I
8	4.6	Conditional Probability
	4.7	Bayes' Theorem
9	5.3	Probability Applications of Counting Principles
	5.4	Bernoulli's Trials
	6.1	Random Variables and Histograms
10	6.2	Measure of Central Tendency
	6.3	Measure of Spread
	6.4	Normal Distribution
11	F1	Simple interest and discount
	F2	Compound interest
	F3	Annuities
	F4	Present value of Annuities and Amortization
12		Review for Exam II
		Exam II
		Thanksgiving
13	2.1	Introduction to Matrices
	2.2	Matrix Multiplication
	1.3	Gauss Elimination for system of Linear Equations
14	1.4	System of Equations with Non-Unique Solutions
	2.3	Inverse of a Square Matrix