Math 1070Q Fall 2020
Math for Business and Economics
Instructor: Stephen Zito
E-mail: stephen.zito@uconn.edu
Personal Website: https://www.stephen-zito.math.uconn.edu/
Office Hours: Virtual

Text: *Applied Finite Mathematics*, 2nd ed., by Tomastik and Epstein.

Course Description:

- The course will be delivered online and asynchronous. I will post videos every Tuesday and Thursday morning typically by 9:00 A.M.
- Videos will be created via HuskyCT's Blackboard Collaborate Ultra tool.
- One-on-one and group video sessions will also be via BCU (Blackboard Collaborate Ultra).

Homework:

- Homework will be posted every Tuesday and Thursday.
- These will NOT be collected.
- I highly recommend giving the problems a shot. Math is a skill and you only get better at a skill by practicing.

Quizzes:

- There will be quizzes every Tuesday and Thursday.
- I will post the quiz on HuskyCT.
- Each quiz is worth 5 points.
- I'll post solutions on HuskyCT.

Projects

- There will be four projects throughout the semester.
- These projects develop interesting applications or enhance key concepts of the chapters
- Projects are worth 20 points each.
- You may work in groups and submit one collective assignment.

Exams

- There will be three exams throughout the semester.
- Exam 1 will be 10/8/20.
- Exam 2 will be 11/12/20.
- The final exam will be the week of 12/14/20 - 12/18/20.
- You must work **ALONE** on Exams.

Make-Up Policy:

- There are **NO** make-ups on quizzes. Let me repeat that "**NO** make-ups."
- I will drop five quizzes at the end of the semester.
- There are **NO** make-ups on projects. Let me repeat that "**NO** make-ups."
- If you can't complete a project, let me know **BEFORE** the deadline and we can work on it together.
- If you miss an exam, then the percentage weight carries over to the next exam.

Grades:

Quizzes	every week	30%
Projects	here and there	10%
Exam 1	10/8	20%
Exam 2	11/12	20%
Final Exam	TBD	20%

Extra Credit

- Every Friday I will post a challenge problem related to the week's material.
- Each is worth up to 1 point on your next exam.
- They will be due the following Monday.
- I will set up a discussion board on HuskyCT so you can collaborate with other students.
- These problems are not mandatory.

Disabilities

- If you anticipate or experience physical or academic barriers based on disability or pregnancy, or require accommodations, please contact Rachel Julian, Waterburys CSD Regional Campus Coordinator, to discuss options.
- Her email is Rachel.julian@uconn.edu and she can also be reached through the Center for Students with Disabilities (860) 486-6899, or http://csd.uconn.edu/.
- https://csd.uconn.edu/documentation-guidelines/
- https://csd.uconn.edu/regional-campus-students/

Mental Health

If you are experiencing undue personal or academic stress at any time during the semester or need to talk with someone about a personal problem or situation, I encourage you to seek support as soon as possible. I am available to talk with you about stresses related to your work in my class. Additionally, I can assist you in reaching out to any one of a wide range of campus resources, including:

- Mental Health Resource Center 203-236-9817 or Claudia.Pina@uconn.edu
  https://waterbury.uconn.edu/student-life/student-resources/mental-health/
- Student Services and Academic Advising https://waterbury.uconn.edu/student-life/student-resources/student-affairs/
- Center for Students with Disabilities https://csd.uconn.edu/

General Thoughts

- Communication is **KEY**. Please, don't be afraid to contact me if you have questions, concerns, or comments.
- Seriously, contact me and we can go over any problem or topic you want.
- In a F2F class, I allow open notes for all quizzes and tests. The same will apply for this course.
- Please, try not to google every single question. If you're stuck, contact me and we can talk it through.
- Midterm grades are required for all 1000 level classes. I will post midterm grades after Exam 1. They are meant to give you an idea of how you're faring in the course so far. The grades are not permanent and do not affect you GPA.

Tentative Schedule:

Week	Section	Topic
1	4.1	Introduction to Sets
	4.2	The Number of Elements in a Set
2	4.3	Sample Spaces and Events
	4.4	Basics of Probability
3	5.1	Multiplication Principle and Permutations
	5.2	Combinations
4	4.5	Rules for Probability
	4.6	Conditional Probability
	4.7	Bayes' Theorem
5	5.3	Probability Applications
	5.4	Bernoulli Trials
6		Review
		Midterm Exam 1
7	6.1	Random Variables and Histograms
	6.2	Measures of Central Tendency
8	6.3	Measures of Spread
	6.4	The Normal Distribution
9	F1	Simple Interest
	F2	Compound Interest
10	F3	Annuities and Sinking Funds
	F4	Present Value of Annuities
11		Review
		Midterm Exam 2
12	1.1	Mathematical Models
	1.2	Systems of Linear Equations
13		Thanksgiving Break
		Thanksgiving Break
14	3.1	Linear Programming Problems
	3.2	Graphing Linear Inequalities
	3.3	Graphical Solution of Linear Programming Problems
15	2.1	Introduction to Matrices
	2.2	Matrix Multiplication
	1.3	Gauss Elimination for Systems of Linear Equations
16		Final Exam (Day and Time TBD)