

Math 1070Q

Fall 2021

Math for Business and Economics

Sections: W31 TuTh 9:30 - 10:45 AM and W32 TuTh 2:00 - 3:15 PM

Room: WTBY 218

Instructor: Stephen Zito

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Personal Website: <https://www.stephen-zito.math.uconn.edu/>

Office Hours: WTBY 315/Virtual, TuTh 12:30 - 2:00 and Virtual, W 9:30 - 11:00

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

Course Description:

- A course in finite mathematics for business students including sets, basic algebraic properties, linear equations and inequalities, functions and graphs, the mathematics of finance, systems of linear equations and matrices, linear programming, and an introduction to probability.
- The course will be primarily face-to-face lecture and discussion.
- Submission of course work will be (mostly) via HuskyCT.
- All information and materials will be posted to HuskyCT.
- One-on-one and group video sessions will be via Blackboard Collaborate.

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 by 9:00 AM on HuskyCT.
- Each quiz is worth 5 points.

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

- Exam 1 will be 10/7/21.
- Exam 2 will be 11/11/21.
- The final exam will be the week of 12/13/21 - 12/17/21.
- The exams are in-class.

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.”
- I will drop one project at the end of the semester.
- If you miss an exam, then the percentage weight carries over to the next exam.

Grades:

Quizzes	every week	20%
Projects	here and there	5%
Exam 1	10/7	25%
Exam 2	11/11	25%
Final Exam	TBD	25%

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.
- Please, try not to google every single question. If you're stuck, contact me and we can talk it through.
- Remember, the exams are all in-person. If you have not adequately prepared, the exams will be quite challenging.
- 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.

COVID Protocols

- <https://covid.uconn.edu/>
- <https://studenthealth.uconn.edu/updates-events/coronavirus/>

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)