

## MATH 1108-R14-Math for Business: Finite

Fall 2020

Syllabus

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<b>Instructor:</b>	Manami Roy
<b>Email:</b>	mroy17@fordham.edu
<b>Live Session:</b>	Mondays and Thursdays from 4 to 5:15 pm.
<b>Office hours:</b>	Mondays, 1- 2 pm and Wednesdays, 3:30-4:30 pm EDT or by appointment

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**Textbook:** Barnett, Ziegler, Byleen, and Stocker (2019), Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences, **14th Edition**, Pearson.

- You are NOT required to purchase a physical copy of the textbook.
- You must purchase access to **MyLab Math with Ebook** either at the University Bookstore or directly via the following website: <https://www.pearsonmylabandmastering.com/northamerica/index.html>
- At the URL above, click on “Student” under “Register” and enter the following instructor’s course ID: **roy51459**
- Be sure to use your Fordham email address to create your MyLab Math account. If you use a preferred name different from the one registered with the University, let the instructor know so that your grade will be properly recorded.

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**Online course information:** This course will run online through Blackboard course page, you can access it using your Fordham Blackboard account. All the course material will be posted there. We will meet online at the scheduled time via [Zoom](#). Please follow the following guidelines to join an online session:

1. Open an account on Zoom **using your Fordham Email Id** and download the application on your device (laptop/tablet/phone).
2. We will use separate Zoom meeting links for each class and the links will be posted on Blackboard announcement. No link will be send via email.
3. You must **use your Fordham Email Id to join a Zoom meeting** for the class and you must **use your full name**.

**Course description:** This course introduces you to various topics that demonstrate fundamental mathematical ideas and concepts needed to analyze real-world problems. Topics to be covered include linear programming, financial mathematics, probability, and statistics. Upon successful completion of this course, you should be able to set up basic mathematical models and solve them using appropriate tools in the context of real-world problems.

**Course structure:** The course is divided into 10 or 11 “modules,” where each module consists of a synchronous (live) session on Zoom and asynchronous learning materials that you work on at your convenience. More precisely, each module is comprised of:

1. **pre-recorded videos** to be posted on the Blackboard course site and associated **pre-homework (pre-HW)** that you complete on MyLab Math prior to a live session.
2. the **live session (either Monday or Thursday)** for group discussions of advanced materials.
3. **post-homework (post-HW)** that you complete on **MyLab Math and written-homework (written-HW)** that you work on based on the live session.

NOTE: During the first live class on Thursday, August 27, the format of live sessions as well as which live sessions you must attend will be explained in detail by the instructor.

**Recording notices:** Live sessions on Zoom will be recorded and the links to the recordings will be shared by the instructor. During live sessions, you are encouraged to keep your camera on for smooth communications. However, if it is not possible for any reason, let the instructor know in advance so that appropriate arrangements can be made.

**Copyright notices:** You must NOT record or take screenshots of any live sessions. You must NOT spread in any form any class materials, including pre-recorded videos, lecture notes, homework assignments, exams, and their answer keys, **during and after the semester ends.**

**Attendance:** Attendance is taken in the live session of each module. More than two (2) unexcused absences will result in a significant lowering of your grade. For each unexcused absence after the second, three (3) points will be deducted from the score of your final exam.

**Homework:** Each module has three types of assignments — pre-HW, post-HW, and written-HW.

1. The due date for each type of homework will be explained during the first live class on Thursday, August 27.
2. Late homework will not be accepted unless prior arrangements have been made with the instructor.
3. You may work with your classmates on homework, but remember that random numbers are generated on MyLab Math so that each student receives a different version of the same assignment.
4. On MyLab Math, the number of mistakes you make will not affect your grade. Only your last submission will be recorded.

**Exams:** There are two in-class midterms and a comprehensive final, which are tentatively scheduled as follows. The format of the exams, which may include both written and oral questions, will be determined later.

- Midterm 1: Monday, October 5
- Midterm 2: Monday, November 16
- Final: TBA by the University

No make-up exams will be given after the exam date. If you know in advance that you will have to miss an exam, you must check with the instructor in advance. In case of illness on an exam date, contact the instructor as soon as possible so that appropriate arrangements can be made.

**Grades:** Your numerical grade will be calculated as

- 10% Pre-HW
- 10% Post-HW
- 5% Written-HW
- 5% Discussion (based on your participation in group discussions during live sessions)
- 20% Midterm 1
- 20% Midterm 2
- 30% Final

The numerical grade will be converted into a letter grade according to the following chart:

A : 93–100 A-: 90–92.99 B+:87–89.99 B : 83–86.99 B-: 80–82.99  
C: 77–79.99 C : 73–76.99 C-: 70–72.99 D : 60–69.99 F : 0–59.99

The instructor reserves the right to adjust this scale, but you are guaranteed at least the grade assigned by this chart.

### Important Dates:

- September 3: Last day to add/drop.
- September 7: No class, Labor Day, university closed.
- October 2: Last day to designate a course pass/fail.
- October 12: No class, Columbus Day, university closed.
- October 14, Wednesday: **Classes follow a Monday Schedule.**
- **October 5: Midterm I.**
- November 6: Last day to withdraw without incurring a WF.
- **November 16: Midterm II.**
- November 25-29: No class, Thanksgiving Break.
- December 8: Last day of class.
- **December 11-18 (TBA)- Final.**

**Academic Integrity and Honesty:** Students are bound to comply with the University's Code of Conduct. This includes [http://www.fordham.edu/info/25380/undergraduate academic integrity policy](http://www.fordham.edu/info/25380/undergraduate_academic_integrity_policy). If a student is found in violation of academic integrity standards while an undergraduate at Fordham University, severe sanctions shall be imposed, so the best advice is **Don't do it!**

**Students with Special Needs - Disability Services:** If Fordham students have questions about testing accommodations or any accommodations for their courses, please call 718-817-0655 or email [disabilityservices@fordham.edu](mailto:disabilityservices@fordham.edu). The general link is: [https://www.fordham.edu/info/20174/disability\\_services](https://www.fordham.edu/info/20174/disability_services).

Tentative schedule: This is intended only as a rough guideline. Topics and dates are subject to change.

**MATH 1108 (Fall 2020)- (Monday-Thursdays)-Tentative schedule**

Day	Date	Live session number	Section	Contents
R	8/27	Live session 0		Course set-up and logistics
M	8/31	Live session 1(A)	5.1, 5.2	Module 1: Linear Programming 1
R	9/3	Live session 1(B)		
M	9/7	<b>NO CLASS (Labor Day)</b>		
R	9/10	Live session 2(A)	5.3	Module 2: Linear Programming 2
M	9/14	Live session 2(B)		
R	9/17	Live session 3(A)	3.1, 3.2	Module 3: Math of Finance 1
M	9/21	Live session 3(B)		
R	9/24	Live session 4(A)	3.3, 3.4	Module 4: Math of Finance 2
M	9/28	Live session 4(B)		
R	10/1	Catch-up review		
M	10/5	<b>Midterm 1</b>		
R	10/8	Live session 5(A)	7.3, 7.4	Module 5: Counting
M	10/12	<b>NO CLASS (Columbus Day)</b>		
W	10/14	Live session 5(B)		<b>Monday schedule</b>
R	10/15	Live session 6(A)	8.1, 8.2	Module 6: Probability 1
M	10/19	Live session 6(B)		
R	10/22	Live session 7(A)	8.3	Module 7: Probability 2
M	10/26	Live session 7(B)		
R	10/29	Live session 8(A)	8.4 (8.5)	Module 8: Probability 3
M	11/2	Live session 8(B)		
R	11/5	Live session 9(A)	10.1, 10.2	Module 9: Statistics 1
M	11/9	Live session 9(B)		
R	11/12	Catch-up and review		
M	11/16	<b>Midterm 2</b>		
R	11/19	Live session 10(A)	10.3, 10.4	Module 10: Statistics 2
M	11/23	Live session 10(B)		
R	11/26	<b>NO CLASS (Thanksgiving)</b>		
M	11/30	Live session 11(A)	10.5 (8.5)	Module 11: Statistics 3
R	12/3	Live session 11(B)		
M	12/7	Review for Final		
	TBA	<b>Final Exam</b>		