

Fordham University
Math for Business: Finite
Math 1108-R06 (10712)
Mon, Thu 11:30am-12:45pm
Faculty Memorial Hall 311

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.

Contact Information

Instructor: John Adamski, PhD
Email: jadamski1@fordham.edu
Office: JMH 409
Website: johnadamski.com
Office Hours: Wed 11am-1pm in the Math Help Room, JMH 410
Fri 12-1pm in [my personal Zoom meeting room](#)
Fri 1-2pm in Fordham's [Virtual Math Help Room \(full schedule\)](#)

Course Materials

Lecture notes, quizzes, exams, answer keys and all other course materials will be archived in [this Google Drive folder](#), accessible only to students registered in this course.

MLM: Textbook & Homework

We will be using the text *Finite Mathematics for Business, Economics, Life Sciences and Social Sciences* by Barnett, Ziegler, Byleen, and Stocker, 14th edition, published by Pearson. You

must purchase online access to this text and the MyLab Math (MLM) interactive platform by following the instructions at the end of this syllabus. Note that you will need the following course ID.

adamski20843

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, please let me know so that your grade will be properly recorded.

Homeworks will be accessed and submitted through MLM. Homework from each section of the text will be assigned approximately one class before it is discussed in lecture (see the Course Schedule below) and broken into two parts labelled Pre-HW and Post-HW. Pre-HW questions from each section will be easier in difficulty and you are encouraged to try to solve them before that section is discussed in lecture. Post-HW questions from each section will be more difficult and are intended to be solved after that section is discussed in lecture. The due date for both Pre-HW and Post-HW will be set to the beginning of the lecture following the lecture in which the corresponding section is discussed. The use of calculators on homework questions is allowed and occasionally required.

It is important that you keep up with this pace and do not fall behind. However, late homework submissions will still be accepted with penalty. Any questions answered before the due date will receive full credit, but questions answered after the due date will have 2% of their value deducted *per day* from the score on that assignment.

Quizzes

There will be 5 in-class quizzes given (see Course Schedule below). There are no makeup quizzes. Anyone not in attendance with an unexcused absence will miss out on these points. The lowest quiz grade will be dropped.

Exams

There are two in-class Midterm Exams and a cumulative Final Exam, which are tentatively scheduled as follows.

Midterm Exam #1:	Thursday 10/7
Midterm Exam #2:	Thursday 11/18
Final Exam:	Monday 12/20, 9:30am

Exams will be taken without assistance of books, notes, calculators, or other electronic devices. Make-up exams will only be permitted for excused absences. In order to qualify for a make-up exam, the student must contact me within 24 hours of the absence by email and be prepared to follow the college's policy on excused absences.

Grades

Your course grade will be calculated using the following rubric.

15%	Homework
15%	Quizzes (top 4 out of 5)
20%	Midterm Exam #1
20%	Midterm Exam #2
30%	Final Exam

Attendance

Students are expected to attend all lectures. It is your responsibility to know what happens in class. The best way to fulfill this obligation is to come to every class meeting. I will take attendance because I have a duty to maintain accurate records relating to our course. Absence is not an excuse for coming to class unprepared. Students may be dropped after 3 absences.

Academic Integrity

From the university's website:

A university, by its nature, strives to foster and recognize originality of thought, which can be recognized only when people produce work that is theirs alone, properly acknowledging information and ideas that are obtained from the work of others. It is therefore important that students must maintain the highest standards with regard to honesty, effort, and performance.

As a Jesuit, Catholic university, Fordham is committed to ensuring that all members of the academic community strive not only for excellence in scholarship but also for integrity of character. In the pursuit of knowledge and personal development, it is imperative that students present their own ideas and insights for evaluation, critique, and eventual reformulation. As part of this process, each student must acknowledge the intellectual contributions of others.

By being enrolled at Fordham University, students are bound to comply with the [University Code of Conduct](#), which includes, but is not limited to the [Standards of Academic Integrity](#). For more information, see [Undergraduate Academic Integrity Policy](#).

Disabilities

Under the Americans with Disabilities Act, all members of the campus community are entitled to equal access to the programs and activities of Fordham University. If you have

(or think that you might have) a disability that may impact your participation in the activities, coursework, or assessment of this course, you may be entitled to accommodations through the Office of Disability Services. You can contact them at 718-817-0655, disability-services@fordham.edu, or by visiting the lower level of O'Hare Hall (Rose Hill campus) or Lowenstein 408 (Lincoln Center campus).

Whether or not you have documentation for accommodations, your success in this class is important to me. If there are aspects of this course that are not accessible to you, please let me know as soon as possible so that we can work together to develop strategies to meet both your needs and the requirements of the course.

Tentative Course Schedule

Day	Date	Agenda
1	9/2	Welcome, 5.1 Linear Inequalities in Two Variables
2	9/8	5.2 Systems of Linear Inequalities in Two Variables
3	9/9	5.3 Linear Programming in Two Dimensions
4	9/13	3.1 Simple Interest
5	9/16	Quiz 1 (5.1-3) , 3.2 Compound and Continuous Compound Interest
6	9/20	3.3 Future Value of an Annuity
7	9/23	3.4 Present Value of an Annuity; Amortization
8	9/27	Additional Topics
9	9/30	Quiz 2 (3.1-4) , Review
10	10/4	7.2 Sets
11	10/7	Exam 1 (5.1-3, 3.1-4)
12	10/14	7.3 Basic Counting Principles
13	10/18	7.4 Permutations and Combinations
14	10/21	8.1 Sample Spaces, Events, and Probability
15	10/25	Quiz 3 (7.1-4) , 8.2 Union, Intersection, and Complement of Events; Odds
16	10/28	8.3 Conditional Probability, Intersection, and Independence
17	11/1	8.4 Bayes' Formula
18	11/4	8.5 Random Variable, Probability Distribution, and Expected Value
19	11/8	Additional Topics
20	11/11	Quiz 4 (8.1-5) , Review
21	11/15	10.1 Graphing Data
22	11/18	Exam 2 (7.1-4, 8.1-5)
23	11/22	10.2 Measures of Central Tendency
24	11/29	10.3 Measures of Dispersion
25	12/2	10.4 Bernoulli Trials and Binomial Distributions
26	12/6	10.5 Normal Distributions
27	12/9	Quiz 5 (10.1-5) , Additional Topics
Optional	TBD	Review
Final	12/20	Final Exam (all sections listed above), 9:30am, Room TBD

Student Registration Instructions

To register for **MATH 1108 - R06 - Fall 2021**:

1. Go to <https://www.pearson.com/mylab>.
2. Under Register, select **Student**.
3. Confirm you have the information needed, then select **OK! Register now**.
4. Enter your instructor's course ID: **adamski20843**, and **Continue**.
5. Enter your existing Pearson account **username** and **password** to **Sign In**.
You have an account if you have ever used a MyLab or Mastering product.
 - » If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.
 - » Enter the access code that came with your textbook or that you purchased separately from the bookstore.
 - » If available for your course,
 - Buy access using a credit card or PayPal.
 - Get temporary access.

If you're taking another semester of a course, you skip this step.
7. From the You're Done! page, select **Go To My Courses**.
8. On the My Courses page, select the course name **MATH 1108 - R06 - Fall 2021** to start your work.

To sign in later:

1. Go to <https://www.pearson.com/mylab>.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password**, and **Sign In**.
4. Select the course name **MATH 1108 - R06 - Fall 2021** to start your work.

To upgrade temporary access to full access:

1. Go to <https://www.pearson.com/mylab>.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password**, and **Sign In**.
4. Select **Upgrade access** for **MATH 1108 - R06 - Fall 2021**.
5. Enter an access code or buy access with a credit card or PayPal.