



MATH 208: Fundamental Mathematics I (Fall 2026)

Instructor:	_____
Email Address:	_____
Lectures:	_____
Office Hours:	Your professor will announce their office hours during which they will also be available to give a reasonable amount of help. Note, however, that if you missed a class, it is not reasonable to expect your professor to cover the missed material for you.
Important:	Students should get the above information from their instructor and from the course Moodle site. The instructor is the person to contact should there be any questions about the course.
Prerequisites:	<u>MATH 206</u> or equivalent.
Course Website:	Moodle.

Reading Week

Begins on Saturday, October 10 and ends on Friday, October 16, 2026. No classes that week.

Textbook

Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences, 14th Edition, by Barnett, Ziegler, Byleen & Stocker, Pearson Education, Inc.

The digital and print versions of the textbook will be available at: <https://www.bkstr.com/concordiastore/home>

Note: Students should order textbooks as early as possible, especially for print versions in case books are backordered or there are any shipping delays.

Math Help Centre

A Math Help Centre staffed by graduate students is available. It is a drop-in service, and you can ask questions regarding the course material and background mathematics. The schedule of its operation will be posted in the Department and on the Department webpage <https://www.concordia.ca/artsci/math-stats/services.html#academic-support>

MyLab Math

Every student who buys a textbook will also receive an access code to an online system called **MyLab Math**. Access codes can also be purchased in the Concordia Book Store. The system provides you with a full electronic

version of the text (an eBook) as well as many exercises and practice problems. Students will use this system to do online assignments (see **Assignments** below). Students are also strongly encouraged to use this resource to help with problems similar to assignment problems, and in areas where they need extra assistance. If you have an old **MyLab Math** account, please refer to the footnote* on page 2.

Assignments

Students are expected to submit assignments online using **MyLab Math**. Late assignments **will not** be accepted. Assignments contribute 10% to your final grade. Working regularly on the assignments is essential for success in this course. Students are also strongly encouraged to do as many problems as their time permits from the list of supplementary problems included in this outline.

Calculators

Only calculators approved by the Department (with a sticker attached as proof of approval) are permitted for the class test and final examination. For a list of Approved calculators see:

<https://www.concordia.ca/artsci/math-stats/services.html#academic-support>

Midterm Test

There will be one **midterm test**, based on the material of weeks 1-6 (as listed in the course CONTENTS below). The test will be common to all sections of this course and will be held on **Sunday, November 1, 2026, at 2:00 P.M.**, and will be 1.5 hours long. The rooms for the test will be announced at least one week before the test.

There is no make-up or alternate midterm test. For students who are unable to write the midterm test (for ANY reason), the final exam weight will be elevated automatically to 90% (as per the Grading Scheme below). It is strongly recommended, however, that students prepare themselves for, and do take the midterm test because:

- The midterm test may contribute 30% to your grade, so it may help elevate the grade received in the course; and
- The midterm test is an important opportunity to get timely feedback on your progress in the course.

If you are taking another course with a test at the same time (NOT just the day) as this one, you may choose which of the two tests you want to write. If you are choosing to write the midterm for this course, you must then inform the instructor of the other course that you will not write their test because of the time conflict. If the test to be missed is the midterm test from a MATH 200- 209 course, then the “90% final + 10% assignments’ scheme will be applied to calculate your grade for that other MATH course.

Final Exam

The final examination will be three hours long and will cover all the material in the course.

PLEASE NOTE: Students are responsible for finding out the date and time of the final exam once the schedule is posted by the Examinations Office. Any conflicts or problems with the scheduling of the final exam must be reported directly to the Examinations Office, **not** to your instructor. It is the Department’s policy and the Examination Office’s policy **that students are to be available until the end of the final exam period. Conflicts due to travel plans will not be accommodated.**

*If you are repeating this course and have an old **MyLab Math** account, you might be able to get your account extended. **Please try to register for MyLab Math as per the instructions.** Use the same username and password that you used in the previous semester.

PLEASE NOTE: **MyLab Math** ACCESS IS NOT TRANSFERRABLE BETWEEN PRODUCTS. (E.g. MATH 208 and MATH 209. DO NOT use the same product so the access is not transferrable). If you had access in the past and are asked for an access code, then choose the 14-day free trial and contact our Pearson representative at molly.armstrong1@pearson.com with the following information:

- Your full name, email address, Pearson username, and Concordia student ID number.
- The name of the course, section, instructor name and the term you are currently registered in (e.g. MATH 208/Sec. AA –Fall 2026)

Grading Scheme

The final grade will be based, in all cases, on the *higher* of the two options:

- (a) 10% for the assignments, 30% for the midterm test, 60% for the final exam.
- (b) 10% for the assignments, 90% for the final exam.

IMPORTANT: PLEASE NOTE THAT THERE IS NO "100% FINAL EXAM" OPTION IN THIS COURSE.

The following schedule of topics is approximative.

Weeks	Topics		Supplementary Problems	
1	1.2	Graphs and Lines	p. 23:	27, 29, 57, 64, 66, 80.
	2.3	Quadratic Functions	p. 80:	20, 27, 38, 66.
2	2.5	Exponential Functions	p. 104:	30, 32, 34, 44, 48, 52.
	2.6	Logarithmic Functions	p. 115:	25, 29, 46, 48, 80.
3	B.2	Arithmetic and Geometric Sequences	p. 626:	24, 28, 34, 36, 50.
	3.1	Simple Interest	p. 132:	35, 37, 45.
4	3.2	Compound Interest	p. 144:	33, 43, 45, 52, 62, 66, 68.
	3.3	Future Value	p. 154:	21, 28, 30, 36, 40.
5	3.4	Present Value	p. 164:	20, 28, 36, 42, 44.
	4.1	Systems of Linear Equations	p. 183:	15, 27, 66, 68.
6	4.2	Systems of Linear Equations/Augmented Matrices	p. 195:	40, 50, 55, 59, 63, 65.
	4.3	Gauss-Jordan Elimination	p. 206:	44, 48, 52, 56, 58.
	October 10 - October 16: Mid-term Break MIDTERM TEST (includes the material of the Lectures 1-6)			
7	4.4	Matrices: Basic Operations	p. 219:	33, 37, 56, 58, 66.
	4.5	Inverse of a Square Matrix	p. 232:	28, 48, 52, 54, 60.
8	4.7	Leontief Input-Output	p. 248:	18, 20, 28, 36, 40.
	5.1	Inequalities in Two Variables	p. 261:	9, 13, 42, 46, 52.
	5.2	Systems of Linear Inequalities in Two Variables	p. 267:	18, 22, 28, 32, 40.
9	5.3	Linear Programming in Two Dimensions	p. 278:	18, 20, 24, 28, 32.
	7.3	Basic Counting Principles	p. 366:	16, 23, 37, 40, 52.
10	7.4	Permutations & Combinations	p. 378:	44, 48, 62, 66, 76.
	8.1	Sample Spaces, Events and Probability	p. 396:	29, 59, 77, 83, 92.
11	8.2	Union, Intersection and Complement of Events	p. 409:	62, 68, 80, 82, 86.
	8.3	Conditional Probability	p. 422:	29, 31, 39, 48, 62.
12	REVIEW			

Student Services

You may wish to access the many services available to you as a Concordia student. An overview of these resources can be found here: <https://www.concordia.ca/students/services.html>

Academic Integrity and the Academic Code of Conduct

This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: <https://www.concordia.ca/conduct/academic-integrity.html>" [*Undergraduate Calendar, Sec 17.10.2*]

Behaviour

All individuals participating in courses are expected to be professional and constructive throughout the course, including in their communications.

Concordia students are subject to the [Code of Rights and Responsibilities](#) which applies both when students are physically and virtually engaged in any University activity, including classes, seminars, meetings, etc. Students engaged in university activities must respect this Code when engaging with any members of the Concordia community, including faculty, staff, and students, whether such interactions are verbal or in writing, face to face or online/virtual. Failing to comply with the Code may result in charges and sanctions, as outlined in the Code.

Intellectual Property

Content belonging to instructors shared in online courses, including, but not limited to, online lectures, course notes, and video recordings of classes remain the intellectual property of the faculty member. It may not be distributed, published or broadcast, in whole or in part, without the express permission of the faculty member. Students are also forbidden to use their own means of recording any elements of an online class or lecture without express permission of the instructor. Any unauthorized sharing of course content may constitute a breach of the [Academic Code of Conduct](#) and/or the [Code of Rights and Responsibilities](#). As specified in the [Policy on Intellectual Property](#), the University does not claim any ownership of or interest in any student IP. All university members retain copyright over their work.

Use of Concordia email

Your [Concordia email](#) is the official channel for all university communications, as required by the university's [Policy on Concordia email accounts for students and employees](#). Please use your Concordia email for all communication related to this course and check it regularly so you don't miss important information. [Learn more about how to access your Concordia email](#).

As a student, you are expected to follow the email policy and to use your Concordia email in a respectful and responsible manner. The policy helps ensure that communication across the university is secure, reliable, and consistent.

Extraordinary circumstances

In the event of extraordinary circumstances and pursuant to the [Academic Regulations](#) the University may modify the delivery, content, structure, forum, location and/or evaluation scheme. In the event of such extraordinary circumstances, students will be informed of the change.