Department of Mathematics & Statistics
Concordia University

Departmental website:
http://www.concordia.ca/artsci/math-stats.html

REMOTE MATH 209: Fundamental Mathematics II (Summer 2026)

Course Coordinator: Sabrina Giovanniello

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Lectures: **REMOTE** on MOODLE

This is a remote course with asynchronous and synchronous components.

Asynchronous components (accessible through the Moodle site)

- Recorded capsules that explain the concepts of this course and provide examples
- Videos on concepts and examples in the MyLab Math platform
- Practice exercises (MyLab Math): recommended exercises, not graded
- Discussion board: post to interact with peers and TAs

Synchronous components (dates and times posted on the Moodle site)

- Office hours on Zoom: drop in to discuss concepts, examples and exercises with your TAs.
- Live tutorial sessions on Zoom:
  - Remedial sessions to help you catch up with the material that is required for this course
  - Review sessions for the midterm and final exams

Office Hours: In the Moodle site, you will find the dates and times as well as the Zoom link to access the office hours. It is a drop-in session; when you join Zoom, if the TA is busy with another student, you'll be put in the waiting room. Each student will be allotted a maximum of 15-minute office hours at any given time – plan carefully what you want to ask to make the best use of the allotted time.

During office hours, we will be available to give a reasonable amount of help. We expect, however, that you have watched the videos and capsules corresponding to the topic you may have questions on; office hours are a space to ask specific questions about a concept, an example, or an assignment. They are not a space to ask your TA to "teach" you a topic.

Important: Students should obtain the above information from the course Moodle site. All questions related to course content must be posted on the discussion board, where they will be addressed by the TAs. The course coordinator should be contacted only regarding personal matters. Any course content related emails will remain unanswered.

Prerequisite:	MATH 206 or equivalent.
Course Website:	Moodle

Textbook

Calculus for Business, Economics, Life Sciences and Social Sciences, 14th Edition, by Barnett, Zeigler, & Byleen. CUSTOM EDITION.

The digital and print versions of the textbook are available at: https://www.bkstr.com/concordiastore/home

Every student who purchases the e-text will be given access to the online system called MyLab Math. This system contains an e-version of the textbook, as well as many of the resources used in this remote course (Study Plan, Assignments, typical examples on different topics, often with solutions, video materials, etc.). **Access to the MyLab Math platform is required for this course. See instructions on the Moodle site to register for this course on the platform.**

Live Tutorials

The material in this course requires a lot of practice and a strong background in arithmetic and algebra. The Department has therefore organized special online tutorial sessions to review required topics in arithmetic and algebra and to practice the course material. These tutorials are conducted every week to provide additional support to students. Students are strongly encouraged to participate and be active in these problem-solving sessions. Tutorials are an important resource to help students succeed in this course. The sessions will run on Zoom and the times and links to attend will be posted on the Moodle site.

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 and its location will be posted in the Department and on the Department webpage https://www.concordia.ca/artsci/math-stats/services/math-help-centre.html .

MyLab Math

MyLab Math is Pearson's online system that contains not only the e-version of the course textbook but also a large number of various resources, like practice exercises, typical examples on different topics, often with solutions, video materials, etc., that help you master the course material. Every student who purchases the access code for MyLab Math will gain access to the entire system with its resources.

If you have an old **MyLab Math** account, please refer to the footnote* on page 3.

Assignments

Students are expected to submit assignments online using **MyLabMath**. 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, as well as practice problems in the Study Plan in MyLab Math.

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/advising/calculators.html

Approved calculators with stickers are also available in the Concordia bookstore.

Midterm Test

There will be one midterm test **online**, administered via the **MyLab Math** platform, based on the material of assignments 1-3 (as listed in the course CONTENTS below). The test will be held on **Wednesday, June 3, 2026,** and will be 90 minutes long.

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 up to 20% to the student's grade (see the Grading Scheme below), 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.

Final Exam

The final examination will be **in-person**, 3 hours long, and will cover all the material in the course.

Students are responsible for finding out the date, time and location of the final exams once the schedule is posted by the Examinations Office. Conflicts or problems with the scheduling of the final exam must be reported directly to the Examinations Office, not to your TA or course coordinator.

It is the University'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.

Grading Scheme

The final grade will be based on the higher of a) or b) below:

a) 10% for the assignments
20% for the midterm test
70% for the final exam

b) 10% for the assignments
90% for the final exam

Students must obtain 50% in the final exam to pass the course.

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

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*If you are repeating this course and have an old **MyLabMath** account, you might be able to get your account extended. **Please try to register for MyLabMath as per the instructions In the Moodle site.** Use the same username and password that you used in the previous semester.
PLEASE NOTE: **MyLabMath** 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 209/RM – Summer 2026)

Course Contents

Assignment	Topics	Supplementary Problems
1	2.1 Introduction to Limits	p. 102: 11, 17, 27, 33, 41, 43, 45, 47, 61, 87, 79, 89.
	2.2 Infinite limits	p. 114: 17, 19, 43, 75, 81, 85.
	2.3 Continuity	p. 126: 19, 21, 29, 35, 37, 61, 69, 79.
	2.4 The Derivative	p. 141: 11, 23, 27, 35, 47, 81, 83.
2	2.5 Basic Differentiation	p. 152: 19, 31, 47, 59, 89, 91.
	2.6 Differentials	p. 160: 23, 25, 29, 31, 45, 49.
	2.7 Marginal Analysis in Business	p. 169: 11, 15, 27, 33, 49.
	3.1 Review of the constant e and continuous interest	p. 185: 11, 17, 29, 31, 35, 47.
	3.2 Derivatives of Exponential and Logarithmic Functions	p. 194: 13, 15, 21, 45, 53, 55, 67.
	3.3 Derivatives of Products & Quotients	p. 202: 11, 19, 25, 33, 93, 97.
3	3.4 The Chain Rule	p. 212: 21, 25, 35, 39, 51, 53, 60, 97.
	3.5 Implicit Differentiation	p. 220: 13, 19, 21, 35, 45, 59.
	3.6 Related rates	p. 226: 13, 15, 19, 33, 37.
	3.7 Elasticity of Demand	p. 233: 33, 35, 47, 49, 61, 83.
4	4.1 First Derivative and Graphs	p. 252: 11, 15, 17, 29, 33, 45, 51, 85, 97.
	4.2 Second Derivative and Graphs	p. 269: 9, 15, 17, 21, 25, 29, 39, 49, 99.
	4.4 Curve-sketching techniques	p. 292: 9, 23, 35, 63, 65, 77, 85.
	4.5 Absolute Maxima and Minima	p. 302: 11, 13, 17, 23, 31, 43, 57, 61.
5	4.6 Optimization	p. 313: 9, 11, 21, 29.
	5.1 Antiderivatives	p. 332: 11, 13, 23, 37, 43, 45, 55, 61, 81, 85.
	5.2 Integration by substitution	p. 344: 11, 15, 19, 21, 47, 63, 65, 77, 79.
	5.4 The Definite Integral	p. 366: 31, 33, 41, 43, 51, 55.
6	5.5 Fundamental Theorem of Calculus	p. 377: 17, 21, 29, 31, 43, 59, 71, 81, 83.
	6.1 Area between Curves	p. 395: 31, 35, 41, 45, 49, 51, 55, 79, 83, 85.
	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

Access Centre for Students with Disabilities

If you need accommodations for classes, assignments, or exams, please contact the Access Center for Students with Disabilities. Website: https://www.concordia.ca/students/accessibility.html

Counselling and Psychological Services

Counselling and Psychological Services offers short-term counselling to registered Concordia students who are in Quebec. Appointments can be either virtual or in-person. Website: https://www.concordia.ca/health/mental-health/counselling.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.