



MATH 222: Logic, Proofs, and Discrete Structures (Fall 2026)

Instructor:	Dr. Nadia Hardy
Email Address:	nadia.hardy@concordia.ca When sending an email, write MATH 222 FALL 2026 and YOUR STUDENT ID on the subject line. Failure to do this may result in a delayed response; I prioritize emails with this subject line.
Lectures:	Mondays & Wednesdays, 10:15-11:30.
Office Hours:	Mondays, 1:30-3:00 PM. By appointment only in case of demonstrable conflict with the above hours (e.g., another class, work shift, doctor's appointment, etc.).

Reading Week

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

Textbook

There is no assigned textbook for this course. Course notes are posted on the Moodle site. The following textbooks are not mandatory and are meant to act as reference for the material that we cover in class.

- *Discrete Mathematics and its Applications*, by Kenneth H. Rosen
- *Mathematical Reasoning, Writing and Proof*, by Ted Sundstrom

(Self-)Assessment

- **Homework and solutions will be posted almost every week on Moodle.** These are not graded but you are strongly encouraged to do all proposed exercises and check your solutions. Quizzes, midterm and final exams are based on assigned homework.
- In addition to the homework assigned on Moodle, I developed a **web application** to help you familiarize yourself with symbols and course concepts. The link to the app will be shared on Moodle and you have to create an account to access it. I'll be able to see how often you engage with the app and your weekly progress; **students will receive bonus marks depending on their streak and XP.**
- **There will be 3-4 quizzes based on previously assigned homework.** The date of each quiz will be announced in Moodle at least a full week in advance. The quizzes will consist of 2-3 problems from previously assigned homework, or slight variations of those.

- There will be one **midterm test** in class. The date will be announced in Moodle. The test will be 90 minutes long and will be based on the material of all previous classes.

There will be no make-up for missed quizzes or missed midterm. No exceptions. If you miss one or more quizzes, the weight of those will be shifted to the quizzes you take; missing all quizzes will result in 0% in that assessment component. If you miss the midterm, the weight is shifted to the final exam as per the grading scheme (see below).

- **Final exam:** The final examination will be three hours long and will cover all the material in the course. The final exam is scheduled by the Exams Office. **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 Exams Office. It is the Exams Office's policy **that students are to be available until the end of the final exam period. The Exams Office will not accommodate conflicts due to travel plans.**

Grading Scheme

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

- (a) 20% quizzes, 30% midterm test, 50% final exam.
- (b) 20% quizzes, 80% final exam.

Diversity and Inclusion Statement

Concordia University is an intentionally inclusive community that promotes and strives to maintain an equitable and just work and learning environment. We welcome and value individuals and their differences, including race, economic status, gender expression and identity, sex, sexual orientation, ethnicity, national origin, first language, religion, age, and disability. I invite to share any concerns about inequitable access or treatment in this course.

I strive to create a learning environment for you that supports a diversity of thoughts, perspectives, and experiences, and honours your identities. To help accomplish this:

- If you have a name and/or set of pronouns that differ from those that appear in your official Concordia records, you are encouraged to let me know.
- If you feel your performance in the course is being impacted by your experiences outside of class, please come talk with me.
- I am still in the process of learning about inclusion, diverse perspectives, and identities. If something was said in class (by anyone, including me) that made you feel uncomfortable, please talk to me about it.
- As a participant in course discussion and problem-based sessions, you should strive to honour the diversity of your classmates.

Additional Course Policies

- No cell phones or computers allowed during class time.
- All announcements will be posted on Moodle. Be sure your Moodle notifications are turned on, and you check it regularly.
- I am here to facilitate your learning; let me know if you have questions! I can always be reached by e-mail and can schedule additional office hours should you need them.

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*]

Accommodations for Students with Disabilities

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

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.