

**MATH 364**

Analysis I  
*Summer 2024*

- Instructor:** Dr. Nadia Lafrenière, Office: LB 901.16 (SGW), Phone: (514) 848-2424, Ext. 3224  
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- Class Schedule:** Tuesdays and Thursdays, 10:15-13:00.  
Attendance is highly encouraged.
- Office Hours:** Tuesdays, 13:30-15:00; Thursdays, 14:30-15:30.
- Textbook:** *Introduction to Real Analysis* by William F. Trench. Free download at <http://aimath.org/textbooks/approved-textbooks/trench/>
- References:** *Introductory Real Analysis*, by F. Dangelo & M. Seyfried. Available at the reserve desk of the library.  
  
*Notes on Real Analysis* by L. Larson. Download the textbook on Moodle.
- Assignments:** Homework will be assigned almost every week, on Moodle. Late homework will not be accepted. The lowest score will be dropped. Submit scanned assignments through Moodle as a **SINGLE PDF file**. **No other formats or ways of submitting your work are allowed.** (There are free scanner apps for your smartphone.) Solutions will be posted on Moodle.  
  
You should provide complete arguments in your work. Some assigned problems will not be marked. Students should attempt all problems.
- Midterm:** There will be a midterm test scheduled in the 3<sup>rd</sup> or 4<sup>th</sup> week of classes. The exact date of the exam will be announced in class at least a week in advance. **There will be no make-up midterm exam.**
- Final Exam:** To be scheduled by the exams office. Students should plan to be present for the entire exam period and are responsible for finding out the time of the exam when it is announced. Any conflicts or other problems should be reported to the exams office in a timely manner.
- Grading:** 20% Assignments, 30% Midterm, 50% Final Exam  
**OR**  
20% Assignments, 80% Final Exam  
  
If the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

**Topics:** Time frame is approximate and is meant to include the midterm test.

Lectures	Topics	Chapters
1-3	Elements of Proofs and Set Theory. The Real Numbers.	Chapter 1
4-6	Sequences	Chapter 3
7-9	Limits of Functions and Continuity.	Chapter 2 (§2.1, 2.2)
10-12	Derivatives	Chapter 2 (§2.3, 2.4, 2.5)

#### **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**

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#### **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.