Department of Mathematics & Statistics
Concordia University

MATH 365
Analysis II
Summer 2022

Instructor: Dr. D. Dryanov, Office: LB 901-16 (SGW), Phone: 514-848-2424, Ext. 3224
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Lectures: Tuesdays and Thursdays, 10:15 AM - 12:45 PM in FG B080 (SGW). The lectures will be delivered in-person and will be posted on Moodle.
Class dates: June 23 - August 8, 2022.

Office Hours: Thursdays, 13:15-14:45 in LB 901-16 (SGW).

Textbook: *Introductory Real Analysis*, by F. Dangello & M. Seyfried, published by Brooks/Cole.

References: *Notes on Real Analysis* by L. Larson. Available online:
http://www.math.louisville.edu/~lee/RealAnalysis/IntroRealAnal.pdf

Introduction to Real Analysis by William F. Trench; offered online by the American Institute of Mathematics (AIM).
Available online: http://aimath.org/textbooks/approved-textbooks/trench/

Assignments: Assignments will be posted on Moodle. The solutions should be submitted electronically on Moodle in a pdf file by the due date. **Late assignments will not be accepted.** Assignments indicate the level of difficulty of the problems that students are expected to understand and solve. Therefore, efforts should be made to do and understand them *independently*. **A reasonable and representative subset of each assignment will 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. Solutions to the assignment problems will be posted on Moodle. Assignments' grades together are worth a maximum of 20%.

Midterm Test: There will be a midterm test scheduled in the 7th or 8th lecture. The exact date of the midterm test 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 and location 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, 20% Midterm Test, 60% 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.

Lectures	Topics	Chapters
1-4	Riemann Integration	Chapter 6
5-7	Series of Real Numbers	Chapter 7
8-10	Sequences and Series of Functions	Chapter 8
11-12	Power Series and Taylor Series	Chapter 9
13	**REVIEW**	

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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: concordia.ca/students/academic-integrity." *[Undergraduate Calendar, Sec 17.10.2]*

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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.