

MATH 365
Analysis II
Winter 2021

Preface: Due to exceptional circumstances, this course will be taught and all assessments will be done completely ONLINE.

Instructor: Dr. D. Dryanov
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Zoom Lectures: Mondays & Wednesdays, 1:15 PM -2:30 PM. Recordings of lectures will be posted on the Moodle site of the course.

Zoom Office hours: To be determined.

Textbook: *Introductory Real Analysis*, by F. Dangelo & M. Seyfried. Additional teaching materials will be posted on the Moodle site of the course.
The textbook will be available at:
<https://www.bkstr.com/concordiastore/home>
Note: Students should order textbooks as early as possible, especially for printed versions in case books are backordered or there are any shipping delays.

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

Notes on Real Analysis by L. Larson. Download at
<http://www.math.louisville.edu/~lee/RealAnalysis/IntroRealAnal.pdf>

Assignments: Assignments will be posted on the Moodle site of the course. Submit (upload) scanned assignments as a **single PDF file on the Moodle site of the course. No other formats or ways of submitting your work are allowed. Late homework submissions will not be accepted.** (There are free scanner apps such as iScanner for your smartphone). You should provide complete arguments in your work. Marks will be awarded based on your justifications.

The two grading schemes for this course includes graded assignments and 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.

Online Midterm: There will be a midterm test scheduled in the 7th or 8th week of classes. The exact date of the midterm test will be announced in class and on the Moodle site of the course at least a week in advance. **There will be no make-up midterm exam.**

Online Final: 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 day and the timeslot of the final exam when it is announced. Any conflicts or other problems should be reported to the exams office in a timely manner.

Grading: 10% Assignments, 30% Midterm Test, 60% Final Exam
OR
10% Assignments, 90% 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.

Weeks	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	

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: concordia.ca/students/academic-integrity." [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.

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.