Department of Mathematics & Statistics Concordia University

MATH 464
Real Analysis
Fall 2021

The course, the mid-term and the final exam will all be given online via Moodle. This means more independent study is required of the students. Note that if you wish to send me emails it is not good to do so from Moodle because I cannot reply via Moodle. Write to me directly. There will be video lectures for the course.

Instructor:	Dr. R. Raphael Email: r. raphael@concordia.ca
Lectures:	Mondays and Wednesdays: 13:15-14:30.
Office Hours:	Office hours will be determined in consultation with the class.
Required Textbook:	<i>Real Analysis</i> , 3rd Edition, by Royden and H.L. MacMillan. It is important that one use the 3rd Edition, and not a different edition. <u>https://www.esalq.usp.br/departamentos/lce/arquivos/aulas/2011/LCE58</u> <u>66/Real%20Analysis%203rd%20Edition.pdf</u>
	The print version of the textbook will be available at: https://www.bkstr.com/concordiastore/home Note: Students should order textbooks as early as possible, especially for print versions in case books are backordered or there are any shipping delays.
Topics:	 The main parts of the course will consist of topics from the text taken from the following chapters. Set theory The real number system Metric spaces Topological spaces Compact and locally compact spaces
	There will be complimentary topics as well. Assignments will be given.

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Calculators: Only calculators approved by the Department such as Sharp EL 531 or the Casio FX 300MS, are permitted for the class test and final examination. See http://www.concordia.ca/artsci/math-stats/services.html #calculators for details.

Term Exams: There will be a test in week 6 or 7.

Grading: Midterm Exam 30% Assignments 10% Final 60%

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.

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: <u>concordia.ca/students/academic-integrity</u>." [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.

Use of Zoom

Note: Zoom is included as an institutionally-approved technology. This means we have been assured of the privacy protections needed to use freely within the classroom)

Zoom will be used in this course to facilitate learning at a distance. It may be used to record some or all of the lectures and/or other activities in this course. If you wish to ensure that your image is not recorded, speak to your instructor as soon as possible.

Also, please note that you may not share recordings of your classes and that the instructor will only share class recordings for the purpose of course delivery and development. Any other sharing may be in violation of the law and applicable University policies, and may be subject to penalties.

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

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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.