

MATH 464
Real Analysis
Fall 2020

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 and live office hours (via Zoom) for the course.

Instructor: Dr. R. Raphael
Email: r.raaphael@concordia.ca

Lectures: Mondays and Wednesdays: 13:15-14:30.

Office Hours: Office hours will be determined in consultation with the class.

Required Textbook: *Real Analysis*, 3rd Edition, by Royden and H.L. MacMillan.
It is important that one use the 3rd Edition, and not a different edition.
<https://www.esalq.usp.br/departamentos/lce/arquivos/aulas/2011/LCE5866/Real%20Analysis%203rd%20Edition.pdf>

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.

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

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Disclaimer: In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in the course is subject to change.