

**MATH 464 (MATH 601), Sec. B**  
Real Analysis  
*Fall 2017*

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**Office hours:** \_\_\_\_\_

**Reference Textbook:** *Real Analysis*, 2nd or 3rd Edition, by H. L. Royden (MacMillan ed.).  
The textbook is a classical analysis textbook but the contents of the course are highly standardized and can be found in several books of advanced undergraduate level.

**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 spaces
- ♦ Banach spaces

There might be complementary topics as well, depending on time. Assignments will be given and are integral part of the final grade.

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

**Grading:** Mid term Exam 25%, Assignments 15%, Final 60% or  
Assignments 15%, Final 85% (whichever most favorable).

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.

**Calculators:** Only calculators approved by the Department are permitted in the class test(s) and final examination. The calculators are the **Sharp EL 531** and the **Casio FX 300MS**, available at the Concordia Bookstore. Utterly useless anyway.

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