

MATH 467 (MAST 669/MAST 837), Sec. D
Measure Theory
Winter 2018

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Office Hours: TBA

Required Textbook: *Real Analysis* by H.L. Royden and P.M. Fitzpatrick, Pearson, 2010 (4th Ed.).

Errata: faculty.ksu.edu.sa/fawaz/481files/Books/RAE.pdf

Topics: The main part of the course will consist of the following topics taken from Chapters 2-8:

- Lebesgue measure, measurable sets and functions
- Lebesgue integral
- Differentiation and integration
- Lebesgue (L^p) spaces
- Additional topics may be covered if time permits.

Assignments: Homework will be assigned on a weekly basis, posted on the webpage <http://www.mathstat.concordia.ca/faculty/pgora/m467/>
The solutions are to be handed in in class before or on the due date. No late or electronic submission will be accepted. The solutions will be posted after the due date.

Midterm Exams: There will be one in-class test in week 7 or 8.

Evaluation: In-class exam 30%, assignments 10%, final exam 60%,
or
Final exam 100%.

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.

NOTE: Graduate students will have extra problems on homework as well as on exams.

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*]