

MATH 254 - Honours Analysis 1

Fall Semester 2016 - McGill University

Instructor: Jérôme Vétois (Burnside 914, jerome.vetois@mcgill.ca)

Teaching Assistant: Erfan Nazari (Burnside 1018, erfan.nazarizahraeimotlagh@mail.mcgill.ca)

Lectures: Tuesdays and Thursdays from 1.05 to 2.25pm at Macdonald 279.

Tutorial: Thursdays from 4.05 to 5.25pm at Macdonald 279 (starting on September 8).

Office hours: Tuesdays from 5.30 to 7pm with Erfan (Burnside 1018) or by appointment.

Course webpage: <http://www.math.mcgill.ca/vetois/Math254/Math254.html>

Please check this regularly for updated information and announcements.

Course content. Sets and functions; properties of real numbers; sequences; limits; continuity; differentiation (Chapters 1 to 6 in Bartle and Sherbert's book; Chapters 1 to 5 in Rudin's book, see below).

Textbook: There is no required textbook for this course. The following books are recommended:

- *Introduction to Real Analysis*; 4th edition by Robert G. Bartle and Donald R. Sherbert; Wiley, 2011.
- *Principles of Mathematical Analysis*; 3rd edition by Walter Rudin; McGraw-Hill Education, 1976.

Homework: Assignments will be posted on the course webpage every second week and due on Tuesdays at the beginning of the class. Late homework will not be accepted. Only some (clearly indicated) questions per assignment will be graded but it is essential for mastering the course material to work out all assignment questions.

Midterm: There will be two midterm exams of 1 hour and 2 hours duration, respectively. The dates of the midterms will be announced during the semester.

Final exam: There will be one final exam of 3 hours duration.

Grading: The final grade for the course will be the weighted average of the assignments (10%), the first midterm (10%), the second midterm (20%), and the final exam (60%).

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

Supplemental: There will be a supplemental exam, counting 100% of the supplemental grade. No additional work will be accepted for D, F, or J.

Academic Integrity: McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see www.mcgill.ca/students/srr/honest/ for more information).

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.