

**MAT357H1S: Real Analysis,
Winter 2017.**

Instructor: R. Jerrard

Office: Bahen 6264

Office hours: Tuesday 2-3 and Thursday 3-4, or by appointment. This is likely to change.

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I normally try to reply to student email within one business day. I do not always succeed. Complicated questions are best discussed in person, for example at office hours.

Texts: *Real Mathematical Analysis*, 2nd edition, by Charles C. Pugh.
possibly also online notes posted by the instructor.

Topics: parts of Chapter 2, and essentially all of Chapters 4 and 6 from the textbook. Possibly other topics as well (*e.g.* something about Fourier series, time permitting). If so, notes will be provided.

Marking: Course marks will be based on homework and tutorials, 2 midterm tests, and a final exam.

- Homework will be assigned and collected roughly every two weeks. The assignments are a crucial part of the class. You should expect each assignment to require real time and effort, and you should start working on them well before the deadline for handing them in. If you do not really work on the homework assignments, it will be very difficult to perform well on the tests.

Homework marks will be recorded as follows: when each assignment is marked, you will receive a certain ‘raw score, say $x\%$. For purposes of computing your course mark, this will be treated as $\min\{\frac{5x}{4}, 100\}\%$. One point of this is to “level the playing field” between students who like to discuss problems with their classmates (which is fine with me as long as it is kept within reasonable limits) and students who prefer to work on their own.

- In *some, but not all* of the tutorials, students may be asked to work through material, under the direction of the teaching assistants. Any such tutorials will be announced in advance. For these tutorials, students will be given a mark of either 0 or 1, depending on whether they showed up and took part.
- If there are marks from tutorials, then the homework and tutorial marks will be combined into a single number, assigning substantially more weight to the homework.
- the Midterms will take place during regularly scheduled lecture periods, on
 - Wednesday February 15, 12:10 - 13:00.
 - Wednesday March 22, 12:10 - 13:00.
- the Final Exam will be a standard 3-hour exam and will take place sometime between April 10 and April 28.

- Your course mark will be calculated as follows:

Let HT denote your aggregate percentage score on the homework (adjusted as described above) and tutorials.

For $i = 1, 2$, let T_i denote your percentage score on the i th test.

Let F denote your percentage score on the final exam.

Then your course mark will be computed by the formula

$$\text{course mark} = .16 * HT + .24 * (T_1 + T_2) + .48 * F - .12 * \min\{T_1, T_2, F\}.$$

Other: Blackboard will be used to send out announcements by email. Since these messages will go to your U of T email account, you should check that account regularly.