

MATH 3002 — Real Analysis II

Winter 2018, Carleton University

Professor: Charles Starling
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Office Hours: By appointment.

I will be making all important course announcements on CU Learn and will be posting midterm and assignment solutions there. In this course, you are expected to check it and your Carleton email address regularly.

Prerequisite: MATH 3001 with a grade of C- or higher or permission of the School.

Lectures: Wednesdays and Fridays from 14:35 – 15:55 in the Southam Hall, room 415.

Tutorial: Fridays 4:35–5:25 in Paterson Hall 118.

Evaluation: There will be semi-regular assignments, one midterm, and a final exam. The date of the midterm is **Friday, February 16**.

- Assignments — 30%
- Midterm — 20%
- Final Exam — 50%

Text: *Real Analysis*, by N.L. Carothers.

Approximate course content:

- Function Spaces and Uniform Convergence
- Weierstrass Approximation Theorem
- Lebesgue Measure and Integration
- Hilbert Spaces and Fourier Series (time permitting)

No calculators will be permitted (or needed) on any test.

Academic Accommodation: Students with disabilities requiring academic accommodations in this course must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Students must confirm their need for accommodation with the Instructor no later than one week before the first quiz. If students require special arrangements to meet their academic obligations, please review the course outline and write me with any requests for academic accommodation during the first

two weeks of class, or as soon as possible after the need for accommodation is known to exist.

Pregnancy or Religious Obligation: Please email me requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, see the Student Guide.

Notes:

- You are expected to attend all classes and tutorials. I will be scanning the notes that I lecture from and I will be putting them on CU Learn. However, they are not a complete record of everything I say in class.
- Students who miss the final exam may be eligible for a deferral. Application for a deferral must be made, with appropriate documentation, to the Registrar's Office within five business days of the examination.