

MATH 4007/5007/MAT 5125 - FALL 2020

MEASURE AND INTEGRATION THEORY

(Real Analysis I)

*Lectures:* Tuesdays and Thursdays 11:35-12:55. The lectures will be delivered online via prerecorded video. Links will be posted on Culearn according to the above lecture schedule. You will be able to view the videos anytime after the links have been posted. In addition, lecture notes (pdf files) will be posted on Culearn.

*Instructor:* W. Jaworski, Room 4205 HP  
Phone: 520-2600-ext. 2127 (of no use before I am allowed to return to the campus).  
e-mail: wjaworsk@math.carleton.ca

*Office hours:* Tuesdays and Thursdays 10:00-11:00 or by appointment, via Zoom or Big Blue Button. Instructions to follow.

*Textbook:* There is no mandatory textbook. References: H.L. Royden, *Real Analysis*, 3rd or 4th edition; D.L. Cohn, *Measure Theory*.

*Syllabus:* Most of the material that we will cover can be found in Chapters 3,4,11, and 12 of the 3rd edition of Royden, or Chapters 2,3,4,5, 17, 18, and 20 of the 4th edition.

*Prerequisites:* MATH 3001, or MAT 3120, or permission of the School.

<i>Grading scheme:</i> Assignments	30%
Midterm test (80+10 minutes)	24%
Final exam	46%

You will have to upload pdf files of your completed assignments, by the due date, into Culearn.

The midterm and the final exam will consist of sets of questions which you will need to solve at home during a specified time slot, scan your solutions, and upload as pdf files into Culearn. Your solution to the midterm and the final exam must be written by hand.

The **midterm test** will be written on **Thursday November 5**, during the lecture time slot. We will start at 11:30 and end at 13:00. This time slot will include the time needed to scan and upload your solutions (and print the questions, if you wish).

**Academic accommodation** on account of a disability or for other reasons can be granted only in accordance with the Academic Accommodation Policy. **Students with disabilities** who require academic accommodation should contact the Paul Menton Centre (PMC), ph. 613-520-6608, pmc@carleton.ca. Please ensure that I receive your Letter of Accommodation **no later than two weeks** before the first in-class test requiring accommodation. After requesting accommodation from the PMC, contact me to confirm that accommodation arrangements are made. If you require accommodation for the formally scheduled December Final Examination, you must submit your request for accommodation to the PMC **no later than November 13, 2020**. For more information please see <https://carleton.ca/pmc/>.

**Recording of academic activities and use of course materials:** Please, note that unauthorized student recording of classroom or other academic activities (including advising sessions or office hours) is prohibited. Unauthorized recording is unethical and may also be a violation of University policy. Students requesting the use of assistive technology as an accommodation should contact the Paul Menton Centre. Unauthorized use of classroom recordings - including distributing or posting them - is also prohibited. Under the University's Copyright Policy, faculty own the copyright to instructional materials - including those resources created specifically for the purposes of instruction, such as lectures slides, lecture notes, and presentations. Students cannot copy, reproduce, display, or distribute these materials or otherwise circulate these materials without the instructor's written permission. Students who engage in unauthorized recording, unauthorized use of a recording, or unauthorized distribution of instructional materials will be referred to the appropriate University office for follow-up.