MATH 4002 - WINTER 2021

FOURIER ANALYSIS

- Lectures: Tuesdays and Thursdays 14:35-15:55. 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 e-mail: wjaworsk@math.carleton.ca
- Office hours: Mondays and Wednesdays 11am-12pm, or by appointment; via Zoom or phone. Instructions can be found on Culearn.
- Textbook: A. Deitmar, A First Course in Harmonic Analysis, 2nd edition, Springer 2005.
- *Outline*: The idea of the course is to give a rigorous introduction the classical theory of Fourier series and Fourier integral on R and to show how this theory fits within a more general unifying framework of abstract harmonic analysis, where R is replaced by an abelian group.
- *Prerequisites*: MATH 3001 or permission of the School. Solid command of the material of Math 3001 and Math 2000 is expected.

Grading	scheme:	Term	Assignments					85%
		Take	Home	Exam	(another	assignment)		15%

There will be no formally scheduled Final Examination.

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

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.

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