

131 C, SPRING 2017

WILFRID GANGBO

General facts. Mathematics 131C will meet MWF from 11:00 to 11:50 am in 6229 MS. This is the third quarter of a sequence on Analysis, completing the honors sequence as well as the regular Math 131AB. We will review the Riemann integral in \mathbb{R}^d and then discuss Lebesgue measure, the Lebesgue integral, several convergence theorems, the relation of Lebesgue integration with Riemann integration, and finally differentiation theory. We will cover most of the first three chapters of the Stein-Shakarchi textbook. This course is about reasoning processes as well as Analysis. It is therefore important that all exams be written up with an eye to presenting a clear cogent as well as correct and concise argument. Elegance and brevity, when consistent with accuracy, are virtues in any argument. Please read the sections of the notes as they are taken up in class and browse the relevant parts of the text. There will be regular assignments of homework problems and only those marked *, will be collected, and a subset of them will be graded. More information can be found at

www.math.ucla.edu/~gangbo

Office hours. My office is 7945 MS and my office hours will be MWF from 1:00 to 2:00 pm, or by appointment. I may be reached by phone at (310) 825-4245 or email at wgangbo@math.ucla.edu.

Grades. The course grade for Mathematics 131C will be based on a mid-term exam and the final exam. The date of the exams cannot be changed. You must attend the final exam in order to pass the class. The tentative date for the mid-term exam is Monday 08 May. These various items will be weighted according to

Homeworks	20 %
Mid Term	35 %
Final Exam	45 %

Academic integrity. Please, review the regulations at the following website:
<http://www.deanofstudents.ucla.edu/Student-Conduct>

Notes. You are not allowed to use cell phone in the classroom. Your homeworks should be your own work and you are not allowed to copy from your classmate.

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