

**MATH245C**  
**SPRING 2019**

WILFRID GANGBO

1. This course meets for lectures on Mondays, Wednesdays and Fridays from 1:00 to 1:50 pm in 5203 MS. The course is part C of the Real Analysis Series. The recommended book for that is *Real Analysis, 2nd Edition*, by Gerald B. Folland. We will start with the sections on Distribution Functions and Weak  $L^p$ -spaces and Interpolation of these spaces. We will cover most of Chapters 8 and 9. We will end with a discussion on Sobolev spaces.

2. My office is MS 7945, and office hours will be on Mondays, Wednesdays and Fridays from 2:10 to 3:00 pm, or by appointment. I may be reached by email at [wgangbo@math.ucla.edu](mailto:wgangbo@math.ucla.edu).

3. **Homework.** Homework will be assigned and collected roughly every other week in class. It will be graded and promptly returned to you, usually the following week. The assignments will be announced in class well in advance, and posted on the course website. Your score on each homework assignment will be based on a few randomly chosen problems. **Late homework will not be accepted**, but your lowest homework score will be dropped. The next HW problems can be found at

<http://www.math.ucla.edu/~wgangbo/academic/math245C/>

4. **Grading.** Your final average in this class will be computed as the average of your three best homework scores.

5. **Grader.** Dohyun Kwon; [dhkwon@g.ucla.edu](mailto:dhkwon@g.ucla.edu)

6. **Academic integrity.** Please, review the regulations at the following website:

<http://www.deanofstudents.ucla.edu/Student-Conduct>

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

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