

PMath 450/650  
Lebesgue Measure and Fourier Analysis  
T R : 13:00 - 14:20 MC 4040

Course Outline  
January 2018

Instructor: L.W. Marcoux

MC 5014

**Basic Outline:**

- Vector-valued Riemann integration
- Lebesgue measure
- Lebesgue integration
- $L^p$  spaces
- Hilbert spaces
- Fourier analysis

**Exams:** There will be one midterm examination and one final examination. Once the times and the locations of these exams is known, that information will be posted to the LEARN website.

**Grading:** You will receive the **maximum** of the grades determined by the following two schemes:

- Assignments: 25%, Midterm: 30%, Final: 45%;
- Assignments: 25%, Midterm: 20%, Final: 55%.

**Comments:**

1. There will be *approximately* 8 assignments, handed out on an (almost) weekly basis. All but your worst assignment will count towards your assignment grade.
2. Solutions will be posted on the above webpage *immediately* after the due date. Because of this, **late homework assignments will not be accepted.**
3. Unclaimed assignments and midterms will be held for **three weeks** after the grades have been posted to QUEST. *After that, they will be destroyed in accordance with University policy.*
4. A statement regarding **Academic offenses** and **information for students with disabilities** can be found on the course webpage. You are expected to have read these.