

Real Analysis I - Math 420/507

Fall 2016

- **Instructor:** *Malabika Pramanik*
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- **Office hours:** *To be announced.*
- **Web page:** The course website is
<http://www.math.ubc.ca/~malabika/teaching/ubc/fall16/math420-507/index.html>

Homework assignments and all relevant course information (such as changes to office hours if any, or solutions to homework problems if needed) will be posted here.

- **Text:** *Real analysis: Modern techniques and their applications* by G.B. Folland.
- **Pre-requisite:** A score of 68% or higher in Math 321.
- **Course outline:** The UBC course description is as follows:
 - Sigma algebras
 - Lebesgue measure
 - Borel measures
 - Measurable functions
 - Integration
 - Convergence theorems
 - L^p spaces
 - Hölder and Minkowski inequalities
 - Lebesgue and/or Radon-Nikodym differentiation.

The core topics of this course are contained in Chapters 1, 2 and 3 of the textbook.

- **Lectures :** Monday, Wednesday, Friday 9 am - 10 am in Mathematics 202.
- **Grading Policy:** Homework problems will be posted regularly on the course website. There will be an in-class midterm on **Friday October 21**. Your total score will be a weighted average of your homework, midterm and final scores, with the breakdown as follows.

Homework	40%
Midterm	20%
Final exam	40%

The final exam date will be made available during the term. Please do not make travel arrangements before this date has been released.