

# Complex Analysis - Math 440/508

Fall 2014

- **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/fall14/math440-508/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 :** *Complex Analysis* by Elias Stein and Rami Shakarchi. The textbook is available online at UBC Library.
  - **Pre-requisite:** Math 300 (or equivalent) and a score of 68% or higher in Math 320.
  - **Course outline :** The UBC course description is as follows:
    - The residue theorem
    - The argument principle
    - Conformal mapping
    - The maximum modulus principle
    - Harmonic functions
    - Representation of functions by integrals, series, and products
    - Other topics at the discretion of the instructor.
- The core topics of this course are contained in Chapters 1, 2, 3 and 8 of the textbook. Time permitting, we will also consider other special topics.
- **Lectures :** Monday, Wednesday, Friday 11 am - 12 noon in Mathematics Annex 1118.
  - **Grading Policy :** Homework problems will be posted regularly on the course website. In addition, there will be a takehome midterm and a takehome final. Your total score will be a weighted average of your homework, midterm and final scores, with the breakdown as follows.

Homework	50%
Midterm	25%
Final exam	25%