

Complex Analysis - Math 440/508

Fall 2017

- **Instructor:** *Malabika Pramanik*
 - **Office:** *Mathematics Building, Room 214*
 - **Phone:** *(604)822-2855*
 - **Email:** *malabika@math.ubc.ca*
 - **Office hours:** *Wed, Fri 12-1 pm or by appointment.*
 - **Marker/TA:** *Robert Fraser*
 - **Marker/TA Email:** *rgf@math.ubc.ca*
 - **Web page:** The course website is
<http://www.math.ubc.ca/~malabika/teaching/ubc/fall17/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 105.
 - **Grading Policy:** Homework problems will be posted regularly on the course website. In addition, there will be short quizzes every other week and a takehome final. Your total score will be a weighted average of your homework, quiz and final scores, with the breakdown as follows.

Homework	25%
Quizzes	25%
Final exam	50%