Complex Analysis - Math 440/508

Fall 2016

• Instructor: Malabika Pramanik

• Office: Mathematics Building, Room 214

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• Email: malabika@math.ubc.ca

• Office hours: To be announced.

• Web page: The course website is
  
  http://www.math.ubc.ca/~malabika/teaching/ubc/fall16/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 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.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>50%</td>
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<tr>
<td>Midterm</td>
<td>25%</td>
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<tr>
<td>Final exam</td>
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