Basic information
Course instructor: Kevin Henriot
Instructor’s email address: khenriot@math.ubc.ca
Course webpage: https://khenriot.wordpress.com/teaching/m300/
Office hours: Tuesday 1:00-1:50 PM, 3:35–5:00 PM, M209.

Official textbook

Course outline
The main topics covered in this course are as follows:

- Complex numbers
- Functions of the complex variable
- Rational, exponential, logarithmic functions
- Contour integration and Cauchy’s integral formula
- Series representations of functions of the complex variable
- Residue theory

These correspond to Chapters 1–6 of the class textbook.

Grading scheme and exam dates
There will be weekly homework (outside breaks/midterm weeks), two midterms and a final exam, at the dates indicated below. The worst homework assignment grade will be dropped. The final score will be a weighted average of the scores received in homework, midterms and finals, with the breakdown as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Component</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>Homework</td>
<td>Weekly on Thursdays</td>
</tr>
<tr>
<td>20%</td>
<td>First midterm</td>
<td>February 9</td>
</tr>
<tr>
<td>20%</td>
<td>Second midterm</td>
<td>March 31st</td>
</tr>
<tr>
<td>50%</td>
<td>Final exam</td>
<td>TBA, between April 12 and April 27</td>
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</tbody>
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Policies
The homework is distributed weekly in class and online on Thursdays, and it has to be handed in at the beginning of the class on the next Thursday. Permission to shift the weight of missed midterms or to ignore missed assignments will be granted only in the following circumstances:

- Prior notice of a valid, documented absence on the scheduled date (e.g. out-of-town varsity athletic commitment, with a letter from coach)
- Medical emergency, with notification of the instructor within 48 hours and presentation of a doctor’s note upon return of the student to UBC.

No calculators or notes are allowed in the midterm and final exams.
Prequisites
One of:
M200  Calculus III
M217  Multivariable and Vector Calculus
M226  Advanced calculus
M253  Multivariable Calculus
M263  ?

Corequisites
One of:
M217  Multivariable and Vector Calculus
M227  Advanced calculus II
M317  Calculus IV
M253  Multivariable Calculus
M263  ?