MATH 366 (MATH 601J)  
Complex Analysis I  
Fall 2014

Instructor:  
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Office Hours:  
Wednesdays, 15:00-16:00

Texts:  
1. Main textbook:  

2. Second textbook:  

3. A helpful collection of problems and solutions may be found in the Schaum’s Outline, Complex Variables, by Murray Spiegel.

Evaluation:  
There will be one mid-term test and a final exam. The final grade will be the higher of:  
a) The final exam (60%), the mid-term (30%) and weekly problem assignments (10%)  
b) The assignments (10%) and the final exam (90%)

NOTE: THERE IS NO “100% FINAL” OPTION. Problem assignments will be given (almost) each week, to be submitted the following week; solutions will be posted.

The following table gives an indication of the scope and approximate pace of the course, in terms of sections of the text book Complex Analysis by Brown and Churchill:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Chapters</th>
<th>No. of Weeks on Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Analytic functions</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Elementary functions</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Complex integration</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Taylor and Laurent series</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Residue theorem and applications</td>
<td>6 &amp; 7</td>
<td>2</td>
</tr>
<tr>
<td>Selected topics</td>
<td>7 &amp; 9 &amp; 12</td>
<td>1</td>
</tr>
</tbody>
</table>