## Syllabus

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complex Numbers</td>
<td>3</td>
</tr>
<tr>
<td>Analytic Functions</td>
<td>4</td>
</tr>
<tr>
<td>Elementary Functions</td>
<td>3</td>
</tr>
<tr>
<td>Line Integrals</td>
<td>2</td>
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<tr>
<td>The Cauchy Theorem</td>
<td>4</td>
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<tr>
<td>The Cauchy Integral Formula</td>
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<tr>
<td>Taylor-Series and Laurent Series</td>
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<tr>
<td>Singularities</td>
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</tr>
<tr>
<td>The Residue Theorem</td>
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<tr>
<td>Evaluation of Improper Real Integrals</td>
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</tr>
<tr>
<td>Elementary Conformal Mapping, Linear Fractional Transformation</td>
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<tr>
<td><strong>TOTAL HOURS</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
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2002:07:01 (as PMAT 421)
Prerequisite change: 2009:07:01 (as PMAT 421)
Name change/Description change/combined with Math 423 2012:07:01
WEC:jml