Mathematics

MATH 446  **Applied Complex Variables**  credit: 3 OR 4 hours.
For students who desire a working knowledge of complex variables; covers the standard topics and gives an introduction to integration by residues, the argument principle, conformal maps, and potential fields. Students desiring a systematic development of the foundations of the subject should take MATH 448. 3 or 4 undergraduate hours. 3 or 4 graduate hours. Credit is not given for both MATH 446 and MATH 448. 4 hours of credit requires approval of the instructor and department with completion of additional work of substance. Prerequisite: MATH 241.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>38027</td>
<td>Lecture-Discussion</td>
<td>C13</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>245 - Altgeld Hall</td>
<td>Nikolaev, I</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Open to both undergraduate and graduate students.

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<tbody>
<tr>
<td>38028</td>
<td>Lecture-Discussion</td>
<td>C14</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>245 - Altgeld Hall</td>
<td>Nikolaev, I</td>
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Credit Hours: 4 hours
Instructor Approval Required
Not intended for Undergrad - Urbana-Champaign.
Graduate students requesting the 4 credit hour section must first register for the 3 hour section. If the instructor is willing to offer extra work to graduate students for the 4-hour section, students can get an approval form from 313 Altgeld Hall between the first day of the semester and the 8th week of the semester.

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<tbody>
<tr>
<td>58520</td>
<td>Lecture-Discussion</td>
<td>F13</td>
<td>02:00 PM - 02:50 PM</td>
<td>MWF</td>
<td>445 - Altgeld Hall</td>
<td>Nikolaev, I</td>
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</table>

Credit Hours: 3 hours
Open to both undergraduate and graduate students.

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<tbody>
<tr>
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<td>Lecture-Discussion</td>
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<td>02:00 PM - 02:50 PM</td>
<td>MWF</td>
<td>445 - Altgeld Hall</td>
<td>Nikolaev, I</td>
</tr>
</tbody>
</table>

Credit Hours: 4 hours
Departmental Approval Required
Instructor approval forms available in 313 Altgeld Hall beginning on the first day of Spring semester.