Class Schedule - Fall 2010

Mathematics

MATH 442  Intro Partial Diff Equations  credit: 3 OR 4 hours.
Introduces partial differential equations, emphasizing the wave, diffusion and potential (Laplace) equations. Focuses on understanding the physical meaning and mathematical properties of solutions of partial differential equations. Includes fundamental solutions and transform methods for problems on the line, as well as separation of variables using orthogonal series for problems in regions with boundary. Covers convergence of Fourier series in detail. 4 hours of credit requires approval of the instructor and completion of additional work of substance. Prerequisite: One of MATH 284, MATH 285, MATH 286, MATH 441.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>30354</td>
<td>Lecture-Discussion</td>
<td>C13</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>241 - Altgeld Hall</td>
<td>Hur, M</td>
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<tr>
<td>39129</td>
<td>Lecture-Discussion</td>
<td>C14</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>241 - Altgeld Hall</td>
<td>Hur, M</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Restricted to Engineering Mechanics or Mathematics major(s).
Enrollment is restricted to majors requiring this course. For questions contact advising@math.uiuc.edu. Remaining seats may be made available after priority registration ends or on the first day of class.

Credit Hours: 4 hours
Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Enrollment is restricted to majors requiring this course. For questions contact advising@math.uiuc.edu. Remaining seats may be made available after priority registration ends or on the first day of class.