Mathematics

MATH 554  **Linear Analysis and Partial Differential Equations**  credit: 4 hours.
Course will provide students with the basic background in linear analysis associated with partial differential equations. The specific topics chosen will be largely up to the instructor, but will cover such areas as linear partial differential operators, distribution theory and test functions, Fourier transforms, Sobolev spaces, pseudodifferential operators, microlocal analysis, and applications of the above topics. 4 graduate hours. No professional credit. Prerequisite: MATH 553 or consent of instructor.

<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>30828</td>
<td>Lecture-Discussion</td>
<td>S1</td>
<td>11:00 AM - 12:20 PM TR</td>
<td>445 - Altgeld Hall</td>
<td>Kirr, E</td>
<td></td>
</tr>
</tbody>
</table>

Undergraduate students may register with approval. For more information go to room 313 AH. Students from the following programs must contact the Director of Graduate Studies in Mathematics <rdeville@illinois.edu> to request permission to register for the course: Restricted to Graduate - Urbana-Champaign. Not intended for MS:Economics:Policy Econ -UIUC, MS:Economics:Policy Econ -UIUC, MS: Financial Engineering, MENG: Mechanical Engineering-UIUC, MENG: Elec & Computer Eng-UIUC, or MENG: Engineering: Comp Eng-UIUC