Mathematics

MATH 545  **Harmonic Analysis**  credit: 4 hours.
Harmonic analysis on the circle, the line, and the integers, i.e., Fourier series and transforms; locally compact Abelian groups; convergence and summability; conjugate functions; Hardy spaces; uniqueness; Tauberian theorems; almost-periodic functions; commutative Banach algebras. Prerequisite: MATH 448 and MATH 541; knowledge of Banach spaces.

<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>
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<tbody>
<tr>
<td>51379</td>
<td>Lecture-Discussion</td>
<td>E1</td>
<td>01:00 PM - 01:50 PM</td>
<td>MWF</td>
<td>447 - Altgeld Hall</td>
<td>Li, X</td>
</tr>
</tbody>
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Undergraduate students may register with approval. For more information go to room 313 AH.