Physics

PHYS 580  Quantum Mechanics I  credit: 4 hours.
Second course in quantum mechanics. Operators, state vectors, and the formal structure of quantum theory; operator treatments of simple systems; angular momentum and vector addition coefficients; stationary state perturbation theory; introduction to scattering theory for particles without spin, partial wave analysis, and Born approximation; examples taken from atomic, nuclear, and elementary particle physics. Prerequisite: PHYS 485 or PHYS 487.

<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>30709</td>
<td>Lecture</td>
<td>A</td>
<td>02:00 PM - 03:20 PM</td>
<td>MW</td>
<td>144 - Loomis Laboratory</td>
<td>Fradkin, E</td>
</tr>
</tbody>
</table>

Restricted to Graduate - Urbana-Champaign.