Class Schedule - Spring 2007

Materials Science and Engineering

MSE 498  **Special Topics in MatSE**  credit: 1 TO 4 hours.
Structured presentations of new and developing areas of knowledge in materials science and engineering offered by the faculty to augment the formal courses available. May be repeated. May be repeated in same term. Prerequisite: As specified for each topic offering, see Schedule or departmental course information.

<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>38352</td>
<td>Lecture-Discussion</td>
<td>EL</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>4101 - Materials Science &amp; Eng Bld</td>
<td>Luijten, E</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Int. Computer Simul. Methods
Topic: Introduction to Computer Simulation Methods The purpose of this course is to provide an introduction to the field of computer simulations in materials science. After a general introduction of central concepts, both the Monte Carlo method and the molecular dynamics method will be explained and illustrated by means of a number of examples. The focus of this class lies on understanding the various methods and on obtaining hands-on experience via the use of a generic molecular dynamics package. All students will have access to a special computing cluster to perform calculations with this package.

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</thead>
<tbody>
<tr>
<td>39039</td>
<td>Lecture-Discussion</td>
<td>JC</td>
<td>01:00 PM - 02:20 PM</td>
<td>TR</td>
<td>36 - English Building</td>
<td>Cheng, J</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Restricted to Undergrad - Urbana-Champaign.
Topic: Synthesis of Biomaterials. This section is for both undergrad and graduate students for 3 hours of credit.

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<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>46738</td>
<td>Lecture-Discussion</td>
<td>JC2</td>
<td>01:00 PM - 02:20 PM</td>
<td>TR</td>
<td>36 - English Building</td>
<td>Cheng, J</td>
</tr>
</tbody>
</table>

Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.
Topic: Synthesis of Biomaterials. This section is for graduate students to take 4 hours of credit.

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<th>Instructor</th>
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<tbody>
<tr>
<td>46190</td>
<td>Lecture-Discussion</td>
<td>JR</td>
<td>09:00 AM - 10:20 AM</td>
<td>TR</td>
<td>4101 - Materials Science &amp; Eng Bld</td>
<td>Rogers, J</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Topic: Optical Properties of Materials. This section is for undergraduates and graduate students taking 3 hours of credit.

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<tr>
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<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>46282</td>
<td>Lecture-Discussion</td>
<td>JR2</td>
<td>09:00 AM - 10:20 AM</td>
<td>TR</td>
<td>4101 - Materials Science &amp; Eng Bld</td>
<td>Rogers, J</td>
</tr>
</tbody>
</table>

Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.
Topic: Optical Properties of Materials. This section is for graduate students that want to take 4 hours of credit.