Class Schedule - Fall 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>49635</td>
<td>Lecture-Discussion</td>
<td>JA</td>
<td>02:30 PM - 03:50 PM</td>
<td>TR</td>
<td>4101 - Materials Science &amp; Eng Bld</td>
<td>Abelson, J</td>
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<tr>
<td>50398</td>
<td>Lecture-Discussion</td>
<td>RK</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>1302 - Siebel Center for Comp Sci</td>
<td>Keane, R</td>
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<tr>
<td>46810</td>
<td>Lecture-Discussion</td>
<td>WX</td>
<td>09:00 AM - 10:20 AM</td>
<td>TR</td>
<td>305 - Materials Science &amp; Eng Bld</td>
<td>Xian, W</td>
</tr>
<tr>
<td>48757</td>
<td>Lecture-Discussion</td>
<td>WXG</td>
<td>09:00 AM - 10:20 AM</td>
<td>TR</td>
<td>305 - Materials Science &amp; Eng Bld</td>
<td>Xian, W</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
MatSE for Sustainability
Topic: Materials Performance in Energy & Sustainability. The role of materials performance in the energy and sustainability characteristics of engineering systems, including cost, lifetime, energy consumed or produced, recycling or disposal possibilities, and environmental load. Quantitative methods are used to evaluate the relationship between materials properties, the performance of engineering systems, and the resulting impacts on the environment. Class exercises and homework sets involve analytic and numeric models that are designed to capture the main features of the system. Prerequisites: student in engineering, chemistry, or chemical engineering.

Credit Hours: 3 hours
Design and Analysis of Experim
Topic: Application of statistics to design and analysis of experiments.

Credit Hours: 3 hours
Molecular Cell Biology for Eng
Topic: Molecular Cell Biology for Eng. Subjects covered include: structures and functions of proteins and nucleic acids; gene expression and control; membranes; the extracellular matrix; signal transduction; the cell cycle; cancer; methods in molecular and cell biology. Emphases on application in physical sciences and engineering. Prerequisite: MCB 150. This section is for Undergraduates only.

Credit Hours: 3 hours
Molecular Cell Biology for Eng
Restricted to Graduate - Urbana-Champaign.
Topic: Molecular Cell Biology for Eng. Subjects covered include: structures and functions of proteins and nucleic acids; gene expression and control; membranes; the extracellular matrix; signal transduction; the cell cycle; cancer; methods in molecular and cell biology. Emphases on application in physical sciences and engineering. Prerequisite: MCB 150. This section is for Graduate Students only, you may choose either 3 or 4 hours.