**Materials Science and Engineering**

**MSE 498  Special Topics  credit: 1 TO 4 hours.**

Subject offerings of new and developing areas of knowledge in materials science and engineering intended to augment the existing curriculum. See Class Schedule or departmental course information for topics and prerequisites. May be repeated in the same or separate terms if topics vary.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<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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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.

| 50398 | Lecture-Discussion | RK      | 11:00 AM - 11:50 AM| MWF  | 218 - Ceramics Building            | Keane, R   |

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