**ME472**  
**ENERGY CONVERSION SYSTEMS**  
**3.0 Credit Hours**  
(BS=0.0, ET=3.0, MA=0.0)

<table>
<thead>
<tr>
<th>Scope:</th>
<th>2015-2</th>
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<td><strong>Offerings:</strong></td>
<td>2017-2 2018-2 2019-2</td>
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Fundamental concepts are extended to the engineering analysis of coal, oil and natural gas fossil fuel systems to assess the dominant sources of energy and technologies in the electric power, transportation, industrial, and residential and commercial energy sectors. Renewable and alternative energy resources including solar, wind, biomass, hydro, geothermal, nuclear and ocean energy are assessed, along with analysis of conventional and emerging technologies to harness them. National and global energy issues are discussed with technical, economical, environmental, societal and geopolitical considerations and in the context of Army energy needs.

**Lessons:** 40 @ 55 min (2.500 Att/wk)  
**Labs:** 0 @ 0 min

**Special Requirements:**  
None

**Prerequisite(s):**  
ME312  
-Or-  
MC312