# Heating, Ventilating, Air-Conditioning and Refrigerating Concentration (HVAC&R)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 418</td>
<td>Implementation of Mechanical Controls</td>
<td>4</td>
</tr>
<tr>
<td>or ME 419</td>
<td>Advanced Control Systems</td>
<td></td>
</tr>
<tr>
<td>ME 456</td>
<td>HVAC Air and Water Distribution System Design</td>
<td>4</td>
</tr>
<tr>
<td>ME 459</td>
<td>HVAC Senior Design Project I</td>
<td>3</td>
</tr>
<tr>
<td>ME 460</td>
<td>HVAC Senior Design Project II</td>
<td>2</td>
</tr>
</tbody>
</table>

Select from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 359</td>
<td>Fundamentals of HVAC Systems</td>
</tr>
<tr>
<td>ME 453</td>
<td>Trends and Opportunities in HVAC&amp;R</td>
</tr>
<tr>
<td>ME 454</td>
<td>Benchmarking and Assessment of Building Energy Performance</td>
</tr>
<tr>
<td>ME 455</td>
<td>Introduction to Building Energy Modeling</td>
</tr>
<tr>
<td>ME 457</td>
<td>Refrigeration Principles and Design</td>
</tr>
<tr>
<td>ME 458</td>
<td>Building Heating and Cooling Loads</td>
</tr>
</tbody>
</table>

**Total units**: 25