The MAE Department offers two plans leading to the MSE degree for the Mechanical Engineering option. These are designated:

- Plan I (Thesis)
- Plan II (Non-thesis)

The following sections describe the requirements for each of these options. For both options, the majority of coursework, not including MAE 699, must be from MAE. With prior approval, up to 9 semester hours of 500 level courses may be taken in fulfillment of the Basic and specific program requirements.

### Basic Program of Study

The Basic Program of Study, common to both the Plan I and Plan II (non-thesis) MSE options, contains a minimum of 24 semester hours of graduate-level course work that must include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Engineering Major</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select an engineering major consisting of 12 semester hours of graduate courses including supporting engineering courses</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>First Minor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select a first minor of 6 semester hours of graduate courses in an approved engineering area of specialization</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Second Minor</td>
<td></td>
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<tr>
<td>MAE 692</td>
<td>GRAD ENGR ANALYSIS I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 3 additional semester hours of graduate coursework in mathematics (typically MAE 623, MAE 661, MAE 662, MAE 671, MAE 674, MAE 693, MAE 780 or ISE 690)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Hours</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

### Plan I, Thesis Option

Students selecting this option must:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete Basic Program of Study as described above</td>
<td><strong>24</strong></td>
</tr>
<tr>
<td>MAE 699</td>
<td>MASTER'S THESIS</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Complete an acceptable thesis including a public defense</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Hours</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Plan II, Non-Thesis Option

Students selecting this option must:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete Basic Program of Study as described above</td>
<td><strong>24</strong></td>
</tr>
<tr>
<td></td>
<td>Select 6 semester hours of graduate courses to complete an approved extended program of study</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Hours</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>