M.Eng. On-Campus Degree Requirements

Required Courses
The following courses are required for the M.Eng. degree in Systems Engineering.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSEN 5100</td>
<td>Model Based Systems Engineering</td>
<td>Fall</td>
<td>4</td>
</tr>
<tr>
<td>SYSEN 5200</td>
<td>Systems Analysis Behavior &amp; Optimization</td>
<td>Spring</td>
<td>3</td>
</tr>
<tr>
<td>SYSEN 5900</td>
<td>Systems Engineering Project</td>
<td>Spring and Fall</td>
<td>6 to 8</td>
</tr>
<tr>
<td>CEE 5900</td>
<td>Project Management</td>
<td>Spring or Fall</td>
<td>4</td>
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</tbody>
</table>

Total credits for required courses: 17 to 19

Elective Courses
Since a minimum of 30 credits are required for the M.Eng. degree, 11 to 13 credits of electives will be needed. A list of pre-approved electives is available on the Systems Engineering website at https://www.systemseng.cornell.edu/se/programs/meng-degree-campus/forms. Other courses that have systems content can be approved by submitting a Systems Engineering General Petition.

The electives are grouped into the following categories with the restrictions described:

- **Group**
  - Modeling and Analysis
  - Applications
  - Management
  - Seminar

- **Restriction**
  - At least one course must be taken from this group (3 to 4 credits)
  - At least one course must be taken from this group (3 to 4 credits)
  - No more than one course may be taken from this group
  - No more than one course each semester may be taken from this group, for a maximum of two courses in total

Your advisor must approve the electives you select to ensure a well-rounded program of study. This is documented by submitting a proposal form to the Systems Engineering program office.

Sample Checklist (standard program)

- SYSEN 5100: 4
- SYSEN 5200: 3
- CEE 5900: 4
- MEng Project: 6
- Elective 1: 3-4 (M&A)
- Elective 2: 3-4 (Applications)
- Elective 3: 4
- Elective 4: 3

Total Credit Hours: 30