Computer Engineering, MSE

The CPE program offers two plans leading to the MSE with a Computer Engineering option. These are designated:

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

The following sections describe the requirements for each of these options. With prior approval, up to 12 semester hours of 500-level courses may be taken in fulfillment of the MSE requirements.

**Basic Program of Study**

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

<table>
<thead>
<tr>
<th>CPE Core</th>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE 512</td>
<td>INTRO PARALLEL PROGRAMMING</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CPE 526</td>
<td>VLSI HARDWARE DESC LANG/MODL/S</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CPE 631</td>
<td>ADV COMP SYSTEMS ARCHITECTURE</td>
<td>3</td>
<td></td>
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</tbody>
</table>

3 semester hour graduate course in computer engineering or a related field 3

**Math Minor**

6 hours of coursework with mathematical or theoretical foundation. The courses must be approved by the student’s academic advisor. 6

**Engineering Area of Specialization Minor**

Select a 2-course sequence from engineering, or computer science 2 6

**Total Semester Hours** 24

1 Students who have completed these or similar courses elsewhere may request course substitutions. All substitutions must be approved by the student’s academic advisor.

2 At least one of those courses should be at the 600 level. The selected courses must be approved by the student’s academic advisor or Supervisory Committee.

**Plan I, Thesis Option**

Students selecting this option must:

- Complete the Basic Program of Study as described above 24
- CPE 699  MASTER’S THESIS 6
- Complete an acceptable thesis including a public defense

**Total Semester Hours** 30

**Plan II, Non-Thesis Option**

Students selecting this option must:

- Complete the Basic Program of Study as described above 24
- Select 6 semester hours of graduate coursework to complete an approved extended program of study 1 6
- EE 693  ECE CAPSTONE 1

**Total Semester Hours** 31

1 At least 3 semester hours must be at the 600-level or above