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 Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE 512</td>
<td>INTRO PARALLEL PROGRAMMING</td>
<td>3</td>
</tr>
<tr>
<td>CPE 526</td>
<td>VLSI HARDWARE DESC LANG/MODL/S</td>
<td>3</td>
</tr>
<tr>
<td>CPE 631</td>
<td>ADV COMP SYSTEMS ARCHITECTURE</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 semester hour graduate course in computer engineering or a related field</td>
<td>3</td>
</tr>
</tbody>
</table>

Math Minor

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

Engineering Area of Specialization Minor

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

Total Semester Hours

24

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

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
- CPE 699 MASTER’S THESIS
- 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
- Select 6 semester hours of graduate coursework to complete an approved extended program of study
- EE 693 ECE CAPSTONE

Total Semester Hours

31