The Department’s Master of Science in Civil Engineering (MSCE) offers two options. Plan I is the thesis research option, and Plan II is the coursework only, non-thesis option. Note that up to three credit hours of non-thesis research is allowed (not required) as part of the Plan II option.

**Thesis Option (Plan I)**

- Plan of Study¹ (minimum of 30 credit hours):
  - 21 hours of approved coursework
  - 6 hours of CE 599 Thesis Research
  - 3 hours of CE 593/693 Practicum²

- Approved Coursework (21 hours):
  - 9 hours of core coursework (see below)
  - 6 hours maximum of approved 400-level courses³
  - 12 hours maximum of approved transfer credit
  - 15 hours minimum of CE courses

- Thesis Committee and Defense:
  - Minimum of three graduate faculty, with the majority from the department and at least one member from outside the department
  - Maximum of two attempts to pass defense

- The Committee may require additional prerequisite courses (not allowed as part of the Plan of Study) for those students without an ABET/EAC-accredited degree

- Maximum of 6 years to complete degree requirements

**Coursework Only, Non-Thesis Option (Plan II)**

- Plan of Study¹ (minimum of 30 credit hours):
  - 24-30 hours of approved coursework
  - 0-3 hours of CE 593/693 Practicum
  - 0-3 hours of CE 598 Non-Thesis Research

- Approved Coursework (24-30 hours):
  - 9 hours of core coursework (see below)
  - 6 hours maximum of approved 400-level courses³
  - 12 hours maximum of approved transfer credit
  - 18 hours minimum of CE courses

- Comprehensive Exam and Committee:
  - Minimum of three graduate faculty, with the majority from the department
  - Maximum of two attempts to pass exam

- The Committee may require additional prerequisite courses (not allowed as part of the Plan of Study) for those students without an ABET/EAC-accredited degree

- Maximum of 6 years to complete degree requirements

**MSCE Core Coursework Requirements (9 hours)**

### Construction Engineering and Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 573</td>
<td>Statistical Applications in Civil Engineering</td>
</tr>
<tr>
<td>CE 567</td>
<td>Construction Accounting and Finance</td>
</tr>
<tr>
<td>CE 568</td>
<td>Construction Scheduling</td>
</tr>
</tbody>
</table>

### Environmental and Water Resources Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CE 573</td>
<td>Statistical Applications in Civil Engineering</td>
</tr>
<tr>
<td>CE 575</td>
<td>Hydrology</td>
</tr>
<tr>
<td>CE 626</td>
<td>Physical and Chemical Processes</td>
</tr>
</tbody>
</table>

### Structural Engineering and Materials

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 573</td>
<td>Statistical Applications in Civil Engineering</td>
</tr>
<tr>
<td>CE 534/634</td>
<td>Advanced Structural Mechanics</td>
</tr>
<tr>
<td>CE 531</td>
<td>Structural Dynamics</td>
</tr>
</tbody>
</table>

### Transportation Systems Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 573</td>
<td>Statistical Applications in Civil Engineering</td>
</tr>
<tr>
<td>CE 559</td>
<td>Pavement Design and Rehabilitation</td>
</tr>
<tr>
<td>CE 655</td>
<td>Sustainable Transportation</td>
</tr>
</tbody>
</table>

**Required Forms**² (all forms are available from graduate.ua.edu)

- Appointment/Change of Masters Committee
- Admission to Candidacy for the Masters Degree
- CE 501 (Plan II only)
- Thesis Final Defense Form or a memo with committee signatures (Plan I only)
- Committee Acceptance Form for Electronic Thesis (Plan I only)
- Publication Form for Electronic Thesis (Plan I only)
- Application for Degree

Additional information may be found at graduate.ua.edu and cce.eng.ua.edu.

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¹ University Scholars (BS/MS) students are allowed 9 credit hours of 500-level coursework to double count between the BS and MS degrees.

² Students on graduate assistantships must register for a minimum of 1 credit hour of CE 593 each semester they are supported.

³ Only 400-level courses without 500-level counterparts are allowed and must be approved prior to taking the class.

⁴ Students are responsible for all forms and must route all forms through the Department prior to submission to the Graduate School.