M.S. in Civil Engineering

Educational Objectives

- Students will demonstrate an ability to apply advanced science and engineering concepts to the solution of complex engineering problems.
- Students will demonstrate an ability to communicate effectively orally and in written form.
- Students will demonstrate an ability to research, analyze, and/or design complex engineering systems to meet a desired need.

Admission Requirements

Applicants must have completed a bachelor's in civil engineering or another related engineering discipline. Candidates wishing to pursue acceptance into the program with a non-Civil/Environmental Engineering background are welcomed to apply and should request specific detailed information regarding admission policy and possible leveling courses with the graduate advisor. Students need at least a 3.0 undergraduate grade point average to be considered for admission. Applicants who do not have degrees from English medium universities are required to submit scores from the Test of English as a Foreign Language (TOEFL). A score of 550 is required for admission and 250/600 for appointment to a teaching assistantship.

Recommendations for admission are made on the basis of the following:

- Grade point average in upper-division or graduate work as appropriate.
- Resume or evidence of relevant personal or professional experience.
- Two letters of recommendation
- Research needs of the faculty
- Availability of space in the area of interest

Degree Requirements

For the Master of Science in Civil Engineering, thesis and non-thesis programs are available. Students enrolled in the thesis program normally take a minimum of 24 hours of coursework plus six (6) hours of CE 5398-CE 5399, Thesis. Non-thesis students follow a 33-hour program which includes credit for CE 5396-CE 5397, Graduate Design Projects.

Degree Plan

Required Credits: 30

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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Total Hours

Graduate CE Courses

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<td>CE 5304</td>
<td>Adv Design of Struct Systms</td>
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<td>CE 5305</td>
<td>Advanced Structural Analysis</td>
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<td>CE 5307</td>
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<td>Risk/Reliability Anal-Engr Sys</td>
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<td>Water Reclamation &amp; Reuse</td>
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<td>CE 5317</td>
<td>Stats Methods for Civil Eng</td>
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<td>CE 5318</td>
<td>Bridge Engineering</td>
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<td>CE 5341</td>
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