Ph.D. in Environmental Engineering

Degree Requirements
The department approves specific degree requirements and dissertation topics on an individual basis. Students must attain a minimum overall GPA of 3.0. Students must conduct independent original research in a specific area of environmental engineering. Students must select an advisor willing to supervise dissertation work.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>600- or 700-level course work</td>
<td>12</td>
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<tr>
<td></td>
<td>700-level course work</td>
<td>12</td>
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<tr>
<td>ENE 790</td>
<td>Doctoral Dissert &amp; Res (^1)</td>
<td>36</td>
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<tr>
<td>ENE 791</td>
<td>Graduate Seminar (^2)</td>
<td>0</td>
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Total Credits 60

\(^1\) The 36 credits should be completed before submission of the final dissertation document. Students must register for a minimum of 3 credits of Doctoral Dissert & Res until the dissertation has been submitted and accepted.

\(^2\) Doctoral students are required to register for the seminar every semester.

Qualifying Examination
Full-time students must take the qualifying examination for the first time within one year of beginning active study and must pass it completely by the next time the examination is offered. Part-time students must take the qualifying examination for the first time within three years of the beginning of active study and must pass it completely by the next time it is offered. Exceptional students having only bachelor's degrees who are admitted directly into the doctoral program must take the qualifying examination within one and one-half years of admission and must pass it within two years. All students are permitted to take the examination only twice.

Dissertation Committee
After passing the qualifying examination, each student in consultation with the major faculty member develops a list of five faculty members who have agreed to serve on an advisory committee as follows: two or three members of the graduate faculty in the student's major area of interest; a member of the graduate faculty in the student's major area appointed by the department chairperson; a member of the graduate faculty of the Department of Civil and Environmental Engineering from another field of interest; a member of the graduate faculty from the area of the student's minor field of interest.

Research Proposal
Doctoral students must prepare a written research proposal and make an oral presentation for approval by their dissertation committee. The proposal must be presented after formation of the committee but within six months after passing the qualifying examination. Research is expected to investigate or develop a unique contribution to science and technology.

Dissertation Defense
An oral defense of the dissertation is required after submission of the final document to the department for approval. Signatures of all members of the dissertation committee must be received for final approval to be granted.