M.S. Online in Civil Engineering

Degree Requirements

Students who lack an appropriate background are asked to make up deficiencies by taking a program of bridge courses that is designed in consultation with the graduate advisor. These courses are not typically available online and taken in addition to the degree requirements. Please note that the prerequisites for bridge course must also be met.

A minimum of 30 credits, not including any bridge courses, is required. Candidates must consult with the graduate advisor (not thesis advisor) in designing appropriate programs of study.

Students must attain a minimum GPA of 3.0 in the core courses listed below, and a minimum overall GPA of 3.0.

Online M.S. in Civil Engineering (courses only)

<table>
<thead>
<tr>
<th>Bridge Courses</th>
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</thead>
<tbody>
<tr>
<td>CS 101</td>
</tr>
<tr>
<td>ECON 265</td>
</tr>
<tr>
<td>MATH 112</td>
</tr>
<tr>
<td>MATH 105</td>
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<tr>
<td>MECH 320</td>
</tr>
<tr>
<td>CE 200</td>
</tr>
<tr>
<td>or CE 200A</td>
</tr>
<tr>
<td>CE 210</td>
</tr>
<tr>
<td>CE 320</td>
</tr>
<tr>
<td>CE 321</td>
</tr>
<tr>
<td>CE 341</td>
</tr>
<tr>
<td>CE 350</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<table>
<thead>
<tr>
<th>Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 610</td>
</tr>
<tr>
<td>CE 611</td>
</tr>
<tr>
<td>CE 616</td>
</tr>
<tr>
<td>CE 620</td>
</tr>
<tr>
<td>CE 621</td>
</tr>
<tr>
<td>TRAN 603</td>
</tr>
<tr>
<td>TRAN 752</td>
</tr>
<tr>
<td><strong>Management/Leadership Electives</strong></td>
</tr>
<tr>
<td>EM 602</td>
</tr>
<tr>
<td>HRM 601</td>
</tr>
<tr>
<td>EM 631</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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Online M.S. in Civil Engineering (Master's thesis)

<table>
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<td>CS 101</td>
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<td>or CE 200A</td>
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<tr>
<td>CE 210</td>
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<tr>
<td>CE 320</td>
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### M.S. Online in Civil Engineering

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CE 321</td>
<td>Water Resources Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 341</td>
<td>Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CE 350</td>
<td>Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
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**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CE 610</td>
<td>Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CE 611</td>
<td>Project Planning and Control</td>
<td>3</td>
</tr>
<tr>
<td>CE 616</td>
<td>Construction Cost Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CE 620</td>
<td>Open Channel Flow</td>
<td>3</td>
</tr>
<tr>
<td>CE 621</td>
<td>Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>TRAN 603</td>
<td>Introduction to Urban Transportation Planning</td>
<td>3</td>
</tr>
<tr>
<td>TRAN 752</td>
<td>Traffic Control</td>
<td>3</td>
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**Thesis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TRAN 701</td>
<td>Master's Thesis</td>
<td>6</td>
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**Management/Leadership Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EM 602</td>
<td>Management Science</td>
<td>3</td>
</tr>
<tr>
<td>HRM 601</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>EM 631</td>
<td>Legal Aspects in Environmental Engineering</td>
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</tbody>
</table>

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

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1. Students receiving financial aid at any point in their studies must complete 6 credits of CE 701 Masters Thesis.