# Master's Degree Plan of Study: Civil and Environmental Engineering - Transportation Systems Engineering

## Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
<th>QTR/YR</th>
<th>Thesis Option (36 Units)</th>
<th>Non-Thesis Option (36 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Demand Analysis I</td>
<td>3</td>
<td></td>
<td></td>
<td>Minimum of 21 units must be made up of core courses</td>
<td>Minimum of 21 units must be made up of core courses</td>
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<tr>
<td>Transportation Systems Analysis I</td>
<td>3</td>
<td></td>
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<td>The remaining core courses (at least three) may be chosen from the following courses:</td>
<td>The remaining core courses (at least three) may be chosen from the following courses:</td>
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<tr>
<td>Urban Transportation Networks</td>
<td>3</td>
<td></td>
<td></td>
<td>CEE 224A</td>
<td>CEE 224A</td>
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<tr>
<td>Mathematical Methods in Engineering Analysis</td>
<td>3</td>
<td></td>
<td></td>
<td>CEE 225A or 225B</td>
<td>CEE 225A or 225B</td>
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<td></td>
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<td></td>
<td></td>
<td>CEE 226A</td>
<td>CEE 226A</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CEE 227A or 227B</td>
<td>CEE 227A or 227B</td>
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<td>CEE 229A</td>
<td>CEE 229A</td>
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<td></td>
<td>ECON 282A or 282B</td>
<td>ECON 282A or 282B</td>
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</tbody>
</table>

**Total Core Course Units:**

<table>
<thead>
<tr>
<th>Elective Courses</th>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
<th>QTR/YR</th>
<th>See Below</th>
<th>Students must fulfill a minimum of 9 units from non-research graduate courses (200-289 series)</th>
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</tbody>
</table>

**Total Elective Course Units:**

<table>
<thead>
<tr>
<th>Research/Other</th>
<th>Course</th>
<th>Units</th>
<th>Grade</th>
<th>QTR/YR</th>
<th>Up to 8 units of CEE 296 Thesis Research units can be counted</th>
<th>The remaining units may comprise:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>1) Other graduate classes</td>
<td>1) Other graduate classes</td>
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<td></td>
<td></td>
<td></td>
<td>2) Approved upper division</td>
<td>2) Approved upper division</td>
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<td></td>
<td></td>
<td></td>
<td>undergraduate classes</td>
<td>undergraduate classes</td>
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<td></td>
<td></td>
<td>3) CEE 299 Individual Research units</td>
<td>3) CEE 299 Individual Research units</td>
</tr>
</tbody>
</table>

**Total Other Units:**

**Total Units:**

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**Signatures:**

**Examination Committee:**

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This form must be submitted by the end of the FIRST quarter. Any changes to this form MUST be approved by the Faculty Graduate Advisors.