### DEGREE PLAN

**MASTER OF SCIENCE IN CIVIL ENGINEERING**

**GRADUATE DIVISION – SMU SCHOOL OF ENGINEERING**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Title</th>
<th>Instructor</th>
<th>Hrs.</th>
<th>Semester</th>
<th>Grade</th>
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<tbody>
<tr>
<td><strong>Articulation Courses (if required)</strong></td>
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<tr>
<td><strong>Core Courses – Structural Engineering (15 Term-credit Hours)</strong></td>
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<tr>
<td>ENCE 7340</td>
<td>Introduction to Solid Mechanics</td>
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<tr>
<td>ENCE 7361</td>
<td>Matrix Struc. Analysis &amp; Intro. to Finite Elements</td>
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<tr>
<td>ENCE 7364</td>
<td>Introduction to Structural Dynamics</td>
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<tr>
<td>ENCE 7377</td>
<td>Advanced Steel Design</td>
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<td>ENCE 7375</td>
<td>Advanced Reinforced Concrete</td>
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<tr>
<td><strong>Group I Specialization Electives (9 Term-credit Hours)</strong></td>
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<tr>
<td>ENCE 7373</td>
<td>Prestressed Concrete</td>
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<td>ENCE 7385</td>
<td>Advanced Soil Mechanics</td>
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<tr>
<td>ENCE 7386</td>
<td>Foundation Engineering</td>
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<tr>
<td>ENCE 8340</td>
<td>Theory of Elasticity</td>
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<td>ENCE 8364</td>
<td>Finite Elements in Structural &amp; Continuum Mech.</td>
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<td>ENCE 8366</td>
<td>Basic Concepts of Structural Stability</td>
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<td>ENCE 8368</td>
<td>Theory of Plate Behavior</td>
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<td><strong>Group II Breadth Electives (6 Term-credit Hours)</strong></td>
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<tr>
<td>ENCE 7365</td>
<td>Introduction to Construction Management</td>
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<tr>
<td>ENCE 7366</td>
<td>Introduction to Facilities Engineering Systems</td>
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<tr>
<td>ENCE 7369</td>
<td>Electrical, Mechanical, and Piping Systems</td>
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<td>ENCE 7372</td>
<td>Introduction to CAD</td>
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<td>ENCE 7378</td>
<td>Urban Transportation Systems</td>
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<td>ENCE 8365</td>
<td>Construction Methods and Rehabilitation</td>
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<td>ENCE 8379</td>
<td>Analysis of Transportation Systems</td>
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**TOTAL HOURS (30 Minimum)**

**NOTE:** Students should consult with their advisor each semester before enrolling, to ensure course credit.