



## 2012-13 BS Civil Engineering Degree Plan

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Last First Middle SMU Student ID

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Email Address Phone Number Advisor

See University Curriculum requirements in the Undergraduate Catalog.

### MAJOR

| Courses                                                        | Hours     | Semester & Year | Grade |
|----------------------------------------------------------------|-----------|-----------------|-------|
| CEE 1302 – Introduction to Civil & Environmental Engineering   | 3         |                 |       |
| CEE 2304 – Introduction to Environmental Engineering & Science | 3         |                 |       |
| CEE 2310 – Statics                                             | 3         |                 |       |
| CEE 2340 – Mechanics of Deformable Bodies                      | 3         |                 |       |
| CEE 2140 – CEE Laboratory: Mechanics of Materials              | 1         |                 |       |
| CEE 2372 – Introduction to CAD                                 | 3         |                 |       |
| CEE 3323 – Water Resources Engineering                         | 3         |                 |       |
| CEE 3350 – Structural Analysis                                 | 3         |                 |       |
| CEE 3385 – Soil Mechanics & Foundations                        | 3         |                 |       |
| CEE 4350 – Design of Steel Structures                          | 3         |                 |       |
| CEE 4351 – Design of Concrete Structures                       | 3         |                 |       |
| CEE 4380 – Civil & Environmental Engineering Design I          | 3         |                 |       |
| CEE 4381 – Civil & Environmental Engineering Design II         | 3         |                 |       |
| CEE 5354 – Environmental Engineering Principles & Processes    | 3         |                 |       |
| CEE 5378 – Transportation Engineering & Traffic Planning       | 3         |                 |       |
| CEE X3XX – Technical Elective <sup>2</sup>                     | 3         |                 |       |
| CEE X3XX – Technical Elective <sup>2</sup>                     | 3         |                 |       |
| <b>TOTAL</b>                                                   | <b>49</b> |                 |       |

### MATHEMATICS/STATISTICS

| Courses                                                                        | Hours     | Semester & Year | Grade |
|--------------------------------------------------------------------------------|-----------|-----------------|-------|
| MATH 1337 – Calculus with Analytic Geometry I                                  | 3         |                 |       |
| MATH 1338 – Calculus with Analytic Geometry II                                 | 3         |                 |       |
| MATH 2339 – Calculus with Analytic Geometry III                                | 3         |                 |       |
| MATH 2343 – Elementary Differential Equations                                  | 3         |                 |       |
| STAT 4340 or STAT 5340– Statistical Methods for Engineers & Applied Scientists | 3         |                 |       |
| <b>TOTAL</b>                                                                   | <b>15</b> |                 |       |

### BASIC ENGINEERING

| Courses                                                                               | Hours     | Semester & Year | Grade |
|---------------------------------------------------------------------------------------|-----------|-----------------|-------|
| CEE 2320 – Dynamics                                                                   | 3         |                 |       |
| CEE 2331 – Thermodynamics                                                             | 3         |                 |       |
| CEE 2342 – Fluid Mechanics                                                            | 3         |                 |       |
| CEE 2142 – CEE Laboratory: Fluid Mechanics                                            | 1         |                 |       |
| CEE 3310 – Computational Methods for Civil and Environmental Engineering Applications | 3         |                 |       |
| <b>TOTAL</b>                                                                          | <b>13</b> |                 |       |

**SCIENCE**

| Courses                                          | Hours     | Semester & Year | Grade |
|--------------------------------------------------|-----------|-----------------|-------|
| CHEM 1303 – General Chemistry I                  | 3         |                 |       |
| CHEM 1113 – General Chemistry Laboratory I       | 1         |                 |       |
| CHEM 1304 – General Chemistry II                 | 3         |                 |       |
| CHEM 1114 – General Chemistry Laboratory II      | 1         |                 |       |
| PHYS 1303 – Introductory Mechanics               | 3         |                 |       |
| PHYS 1105 – General Physics Laboratory I         | 1         |                 |       |
| PHYS 1304 – Introductory Electricity & Magnetism | 3         |                 |       |
| PHYS 1106 – General Physics Laboratory II        | 1         |                 |       |
| GEOL 1301 – Earth Systems                        | 3         |                 |       |
| <b>TOTAL</b>                                     | <b>19</b> |                 |       |

**ENGINEERING LEADERSHIP**

| Courses                                                                                                                                       | Hours    | Semester & Year | Grade |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------|
| CEE 3302 – Engineering Communications                                                                                                         | 3        |                 |       |
| EMIS 3308 – Engineering Management,<br>EMIS 3309 – Information Engineering & Global Perspectives, or<br>CSE 4360 – Technical Entrepreneurship | 3        |                 |       |
| <b>TOTAL</b>                                                                                                                                  | <b>6</b> |                 |       |

**White Degree Plan** (For advising ONLY!)

**Blue Degree Plan** (For graduating seniors ONLY: Due at the beginning of the graduating semester.)

**GRADUATION CERTIFICATION:**

\_\_\_\_\_  
Advisor Date

\_\_\_\_\_  
Dept. Chair or Associate Chair Date

\_\_\_\_\_  
Assistant Dean Date

<sup>1</sup>Engineering majors are required to take 9 hours of Perspectives and 6 hours of Cultural Formations, or 12 hours of Perspectives and 3 hours of Cultural Formations for a total of 15 hours. One of the selections for Perspectives or Cultural Formations must satisfy the Human Diversity Co-Requirement.

<sup>2</sup>Must be approved by the student's CE advisor.