# 2010-11 BS Environmental Engineering Degree Plan

| Last | First | Middle | SMU Student ID |
|------|-------|--------|----------------|
|      |       |        |                |

Dallas Address Phone Number Advisor

General Education Curriculum (GEC): From fall 2010 through summer 2011

| Courses   | Hours | Semester & Year | Grade |
|---|-------|-----------------|-------|
| ENGL 1301 – Written English I                                 | 3     |                 |       |
| ENGL 1302 – Written English II                                | 3     |                 |       |
| Perspectives <sup>1</sup> – Arts                              |       |                 |       |
| Perspectives <sup>1</sup> – Literature                        |       |                 |       |
| Perspectives <sup>1</sup> – Religious & Philosophical Thought |       |                 |       |
| Perspectives <sup>1</sup> – History                           |       |                 |       |
| Perspectives <sup>1</sup> – Politics & Economics              |       |                 |       |
| Perspectives <sup>1</sup> – Behavioral Sciences               |       |                 |       |
| Cultural Formations <sup>1</sup>                              |       |                 |       |
| Cultural Formations <sup>1</sup>                              |       |                 |       |
| Human Diversity requirement fulfilled by:                     | ***** |                 |       |
| Wellness I  | 1     |                 |       |
| Wellness II   | 1     |                 |       |
| TOTAL   | 23    |                 |       |

#### **MAJOR**

| WAJOK   |       |                 |       |
|---|-------|-----------------|-------|
| Courses   | Hours | Semester & Year | Grade |
| CEE 1302 – Introduction to Civil & Environmental Engineering        | 3     |                 |       |
| CEE 1331 – Meteorology  | 3     |                 |       |
| CEE 2304 – Introduction to Environmental Engineering & Science      | 3     |                 |       |
| CEE 2421 – Aquatic Chemistry  | 4     |                 |       |
| CEE 3323 – Water Resources Engineering                              | 3     |                 |       |
| CEE 3431 – Fundamentals of Air Quality I                            | 4     |                 |       |
| CEE 3341 – Introduction to Solid & Hazardous Waste Management       | 3     |                 |       |
| CEE 3451 – Principles of Industrial Hygiene and Occupational Health | 4     |                 |       |
| CEE 4380 – Civil & Environmental Engineering Design I               | 3     |                 |       |
| CEE 4381 – Civil & Environmental Engineering Design II              | 3     |                 |       |
| CEE 5317 – Environmental Organic Chemistry                          | 3     |                 |       |
| CEE 5354 – Environmental Engineering Principles & Processes         | 3     |                 |       |
| CEE 5372 – Introduction to CAD                                      | 3     |                 |       |
| Environmental Technical Elective <sup>2</sup>                       | 3     |                 |       |
| Environmental Technical Elective <sup>2</sup>                       | 3     |                 |       |
| TOTAL   | 48    |                 |       |

#### **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     |                 |       |
| TOTAL  | 15    |                 |       |

## **BASIC ENGINEERING**

| Courses                     | Hours | Semester & Year | Grade |
|-----------------------------|-------|-----------------|-------|
| CSE 1341 – Computer Science | 3     |                 |       |
| CEE 2310 – Statics          | 3     |                 |       |
| CEE 2331 – Thermodynamics   | 3     |                 |       |
| CEE 2342 – Fluid Mechanics  | 3     |                 |       |
| TOTAL                       | 12    |                 |       |

# **SCIENCE**

| Courses  | Hours | Semester & Year | Grade |
|--|-------|-----------------|-------|
| CEE 7418 – Engineering Microbiology              | 4     |                 |       |
| 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           | 1     |                 |       |
| TOTAL  | 20    |                 |       |

# **ENGINEERING LEADERSHIP**

| Courses   | Hours | Semester & Year | Grade |
|---|-------|-----------------|-------|
| CEE 3302 – Engineering Communications                     | 3     |                 |       |
| EMIS 3308 – Engineering Management                        |       |                 |       |
| EMIS 3309 – Information Engineering & Global Perspectives |       |                 |       |
| CSE 4360 – Technical Entrepreneurship                     |       |                 |       |
| TOTAL   | 9     |                 |       |

## **ADDITIONAL COURSES**

| Courses | Hours | Semester & Year | Grade |
|---------|-------|-----------------|-------|
|         |       |                 |       |
|         |       |                 |       |
|         |       |                 |       |
| TOTAL   |       |                 |       |

| Total TCH: (Minimum   | 2/)   |         |
|---|---|---------|
| White Degree Plan (For advising <u>Of</u><br>Blue Degree Plan (For graduating s | LY!) eniors <u>ONLY</u> : Due at the beginning of the graduating seme | ester.) |
| GRADUATION CERTIFICATION:   |   |         |
| Advisor   | Date  |         |
| Dept. Chair or Associate Chair  | Date  |         |
| Assistant Dean  | Data  |         |

<sup>&</sup>lt;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>Advisor's approval required