

# SMU ENGINEERING

## 2007-08 BS Civil Engineering Degree Plan

Last First Middle SMU Student ID

Dallas Address Phone Number Advisor

### General Education Curriculum (GEC): From fall 2006 through summer 2007

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		
<b>TOTAL</b>	<b>23</b>		

### MAJOR

Courses	Hours	Semester & Year	Grade
ENCE 1302 – Introduction to Environmental & Civil Engineering	3		
ENCE 2304 – Introduction to Environmental Engineering & Science	3		
ENCE 2310 – Statics	3		
ENCE 2340 – Mechanics of Deformable Bodies	3		
ENCE 2140 – ENCE Laboratory: Mechanics of Materials	1		
ENCE 3323 – Water Resources Engineering	3		
ENCE 3350 – Structural Engineering I: Analysis and Design in Steel	3		
ENCE 4350 – Structural Engineering II: Analysis and Design in Concrete	3		
ENCE 4380 – Environmental & Civil Engineering Design I	3		
ENCE 4381 – Environmental & Civil Engineering Design II	3		
ENCE 4385 – Soil Mechanics & Foundations	3		
ENCE 5354 – Environmental Engineering Principles & Processes	3		
ENCE 5372 – Introduction to CAD	3		
ENCE 5378 – Transportation Engineering & Traffic Planning	3		
ENCE X3XX – Technical Elective <sup>2</sup>	3		
ENCE X3XX – Technical Elective <sup>2</sup>	3		
<b>TOTAL</b>	<b>46</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
CSE 1340 or 1341 – Computer Science	3		
ENCE 2320 – Dynamics	3		
ENCE 2331 – Thermodynamics	3		
ENCE 2342 – Fluid Mechanics	3		
ENCE 2142 – ENCE Laboratory: Fluid Mechanics	1		
<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 1304 – Introductory Electricity & Magnetism	3		
PHYS 1105 – General Physics Laboratory I	1		
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
ENCE 3302 – Engineering Communications	3		
EMIS 3308 – Engineering Management or EMIS 3309 – Information Engineering & Global Perspectives	3		
CSE 4360 – Technical Entrepreneurship	3		
<b>TOTAL</b>	<b>9</b>		

**ADDITIONAL COURSES**

Courses	Hours	Semester & Year	Grade
<b>TOTAL</b>			

Total TCH: \_\_\_\_\_ (Minimum 125)

**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.