

# SMU ENGINEERING

## 2008-09 BS Electrical Engineering Degree Plan Computer Engineering Specialization

Last First Middle SMU Student ID

Dallas Address Phone Number Advisor

### General Education Curriculum (GEC): From fall 2008 through summer 2009

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 – ECO 1311	3		
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
EE 1382 – Fundamentals of Electrical Engineering	3		
EE 2322 – Electronic Circuits I	3		
EE 2122 – EE Laboratory: Electronic Circuits I	1		
EE 2350 – Circuits Analysis I	3		
EE 2370 – Design & Analysis of Signals & Systems	3		
EE 2170 – EE Laboratory: Design & Analysis of Signals & Systems	1		
EE 2381 – Digital Computer Logic	3		
EE 2181 – EE Laboratory: Digital Computer Logic	1		
EE 3311 -- Solid State Devices	3		
EE 3322 – Electronic Circuits II	3		
EE 3122 – EE Laboratory: Electronic Circuits II	1		
EE 3330 -- Electromagnetic Fields and Waves	3		
EE 3360 – Statistical Methods in EE	3		
EE 3372 – Introduction to Digital Processing	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
EE 5381 (or CSE 4381) – Digital Computer Design	3		
EE 5385 (or CSE 5385) – Microprocessors in Digital Design	3		
Advanced Major Elective -- EE 5357, EE 5387 or CSE 5343	3		
Advanced Major Elective -- EE 5357, EE 5387 or CSE 5343	3		
EE 4311 – Senior Design I	3		
EE 4312 – Senior Design II	3		
<b>TOTAL</b>	<b>56</b>		

## MATHEMATICS

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		
Advanced Mathematics Elective <sup>2</sup>	3		
<b>TOTAL</b>	<b>15</b>		

## COMPUTER SCIENCE

Courses	Hours	Semester & Year	Grade
CSE 1341 – Principles of Computer Science I	3		
CSE 2341 – Principles of Computer Science II	3		
CSE 2353 – Discrete Computational Structures	3		
CSE 3358 – Data Structures	3		
<b>TOTAL</b>	<b>12</b>		

## SCIENCE

Courses	Hours	Semester & Year	Grade
CHEM 1303 – General Chemistry I	3		
PHYS 1303 – Introductory Mechanics	3		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 1105 or PHYS 1106	1		
Science Elective <sup>3</sup>	3		
<b>TOTAL</b>	<b>13</b>		

## ENGINEERING LEADERSHIP (Select two of the following)

Courses	Hours	Semester & Year	Grade
ENCE 3302 – Engineering Communications			
EMIS 3308 – Engineering Management			
EMIS 3309 – Information Engineering & Global Perspectives			
CSE 4360 – Technical Entrepreneurship			
<b>TOTAL</b>	<b>6</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>To be chosen from MATH 3315/ CSE 3365, MATH 3337 or MATH 3353 (Credit will not be given for both CSE 2353 & MATH 3308.)

<sup>3</sup>To be chosen from CHEM 1304, PHYS 3305, PHYS 3344 or PHYS 3374