

# SMU ENGINEERING

## 2004-05 BS Electrical Engineering Degree Plan Communication & Signal Processing Specialization

Last First Middle SMU Student ID

Dallas Address Phone Number Advisor

### General Education Curriculum (GEC): From fall 2004 through summer 2005

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
EE 1382 – Fundamentals of Electrical Engineering	3		
EE 2322 – Electronic Circuits	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 3330 – Electromagnetic Fields & Waves	3		
EE 3360 – Statistical Methods in EE	3		
EE 3372 – Intro to Signal Processing	3		
EE 3373 – Communications Systems	3		
Junior EE Elective <sup>2</sup>	3		
Junior EE Elective <sup>2</sup>	3		
EE 4372 – Advanced Topics in Signal Processing	3		
EE 4373 – Advanced Topics in Wireless Communications	3		
EE 4173 – EE Laboratory: Wireless Modem Lab	1		
EE 5176 – EE Laboratory: Network Simulation Lab	1		
EE 5373 – DSP Programming Lab	3		
EE 5376 – Intro to Communications Network	3		
EE 4311 – Senior Design I in Communications & DSP Area	3		
EE 4312 – Senior Design II in Communications & DSP Area	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		
MATH Elective <sup>3</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 2340 or CSE 3358	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>4</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 EE 3311, EE 3315, EE 3322, or EE 3181/3381

<sup>3</sup>To be chosen from MATH 3308, MATH 3315 / CSE 3365, MATH 3337, or MATH 3353

<sup>4</sup>To be chosen from CHEM 1304, PHYS 3305, PHYS 3344, or PHYS 3374