



**2011-12 BS Electrical Engineering Degree Plan**  
**Engineering Leadership Specialization**

Last	First	Middle	SMU Student ID
Dallas Address	Phone Number		Advisor

**General Education Curriculum (GEC): From Fall 2011 through summer 2012**

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 1322 – Survey of Electrical and Electronic Devices	3		
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 Using Matlab	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 3360 – Statistical Methods in EE	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
EE 3330 – Electromagnetic Fields and Waves	3		
EE 3372 – Introduction to Digital Signal Processing	3		
Advanced EE Electives – Area I <sup>2</sup>	3		
Advanced EE Electives – Area II <sup>3</sup>	3		
Advanced EE Electives – Area III <sup>4</sup>	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>5</sup>	3		
<b>TOTAL</b>	<b>15</b>		

## GENERAL ENGINEERING

Courses	Hours	Semester & Year	Grade
CSE 1341- Principles of Computer Science I	3		
CSE 1342 – Programming Concepts	3		
Engineering Elective <sup>6</sup>	3		
<b>TOTAL</b>	<b>9</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>7</sup>	3		
<b>TOTAL</b>	<b>13</b>		

## ENGINEERING LEADERSHIP ( Choose three of the following)

Courses	Hours	Semester & Year	Grade
ENCE 3302 – Engineering Communications	3		
EMIS 3308 – Engineering Management	3		
EMIS 3309 – Information Engineering & Global Perspectives	3		
CSE 4360 – Technical Entrepreneurship	3		
<b>TOTAL</b>	<b>9</b>		

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

## 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 5360, EE 5362/ME 5362, EE 5370, EE 5371, EE 5372, EE 5373, EE 5374, EE5375, EE 5376, EE 5377 or EE 5378

<sup>3</sup>To be chosen from EE 5356, EE 5357, EE 5387, EE 5381, EE 5385 or CSE 5385

<sup>4</sup>To be chosen from EE 5310, EE 5312, EE 5314, EE 5321, EE 5330, or EE 5332

<sup>5</sup>To be chosen from MATH 3308, MATH 3315 / CSE 3365, MATH 3337 or MATH 3353 (Credit will not be given for both CSE 2353 and MATH 3308).

<sup>6</sup>To be chosen from ME 2310, ME 2320, ME 2331, ME 2342, CSE 2341, CSE 2353, EMIS 2360 or any 5000 level EE course approved by the student's advisor

<sup>7</sup>To be chosen from CHEM 1304, PHYS 3305, PHYS 3344 or PHYS 3374