

# SMU ENGINEERING

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

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Last First Middle SMU Student ID

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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 3372 – Introduction to Signal Processing	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
EE 3360 – Statistical Methods in EE	3		
Junior EE Elective <sup>2</sup>	3		
Junior EE Elective <sup>2</sup>	3		
EE 5340 – Introduction to Biomedical Engineering	3		
EE 5345 – Biomedical Instrumentation	3		
Advanced Major Elective <sup>3</sup>	3		
EE 4311 – Senior Design I	3		
EE 4312 – Senior Design II	3		
<b>TOTAL</b>	<b>49</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>4</sup>	3		
<b>TOTAL</b>	<b>15</b>		

**COMPUTER SCIENCE**

Courses	Hours	Semester & Year	Grade
CSE 1340 or 1341 – Computer Science	3		
<b>TOTAL</b>	<b>3</b>		

**SCIENCE**

Courses	Hours	Semester & Year	Grade
PHYS 1303 – Introductory Mechanics	3		
PHYS 1105 – General Physics Laboratory	1		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 1106 – General Physics Laboratory	1		
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		
CHEM 3371 – Organic Chemistry I	3		
CHEM 3117 – Organic Chemistry Laboratory I	1		
CHEM 3372 – Organic Chemistry II	3		
CHEM 3118 – Organic Chemistry Laboratory II	1		
BIOL 1401 – Introductory Biology I	4		
BIOL 1402 – Introductory Biology II	4		
BIOL 3304 – Genetics	3		
BIOL 3350 – Cell Biology	3		
<b>TOTAL</b>	<b>38</b>		

**ENGINEERING LEADERSHIP** (Select one 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>3</b>		

Total TCH: \_\_\_\_\_ (Minimum 131)

**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 3322-3122 or EE 3330

<sup>3</sup>To be chosen from any 5000 level EE course and approved by the student's advisor.

<sup>4</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 & Math 3308.)