SMU ENGINEERING

2004-05 BS Electrical Engineering Degree Plan

Biomedical 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[1] – Arts			
Perspectives[1] – Literature			
Perspectives[1] – Religious & Philosophical Thought			
Perspectives[1] – History			
Perspectives[1] – Politics & Economics			
Perspectives[1] – Behavioral Sciences			
Cultural Formations[1]			
Cultural Formations[1]			
Human Diversity requirement fulfilled by:	*******		
Wellness I	1		
Wellness II	1		
TOTAL	23		

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 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[2]	3		
Junior EE Elective[2]	3		
EE 4311 – Senior Design I	3		
EE 4312 – Senior Design II	3		
EE 5340 – Introduction to Biomedical Engineering	3		
EE 5345 – Biomedical Instrumentation	3		
Advanced Major Elective[3]	3		
TOTAL	49		

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[4]	3		
TOTAL	15		

COMPUTER SCIENCE

Courses	Hours	Semester & Year	Grade
CSE 1340 or 1341 – Computer Science	3		
TOTAL	3		

SCIENCE

Courses	Hours	Semester & Year	Grade
PHYS 1303 – Introductory Mechanics[5]	3		
PHYS 1304 – Introductory Electricity & Magnetism[5]	3		
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		
TOTAL	36		

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			
TOTAL	3		

Total TCH: _____ (Minimum 129)

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**

[1]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.
[2]To be chosen from EE 3311, EE 3315, EE 3322, EE 3330, or EE 3373
[3]Must be approved by the student's advisor.
[4]To be chosen from MATH 3308, MATH 3315 / CSE 3365, MATH 3337, or MATH 3353
[5]Students planning on attending medical school are recommended to also take PHYS 1105 and 1106