

SMU ENGINEERING

2004-05 BS Electrical Engineering Degree Plan Microelectronics & Photonics 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 (ECO 1311)	3		
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 Using Matlab	1		
EE 2381 – Digital Computer Logic	3		
EE 2181 – EE Laboratory: Digital Computer Logic	1		
EE 3322 – Electronic Circuits II	3		
EE 3122 – EE Laboratory: Electronic Circuits II	1		
EE 3360 – Statistical Methods in EE	3		
EE 3311 – Solid State Devices	3		
EE 3315 – Optoelectronics	3		
EE 3330 – Electromagnetic Fields & Waves	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
EE 3372 – Introduction to Signal Processing	3		
EE 5310 – Introduction to Semiconductors	3		
EE 5312 – Semiconductor Processing Laboratory	3		
Advanced Major Elective ²	3		
Advanced Major Elective ²	3		
EE 4311 – Senior Design I	3		
EE 4312 – Senior Design II	3		
TOTAL	59		

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 ³	3		
TOTAL	15		

GENERAL ENGINEERING

Courses	Hours	Semester & Year	Grade
CSE 1341 – Principles of Computer Science I	3		
CSE Elective ⁴	3		
Engineering Elective ⁵	3		
TOTAL	9		

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 ⁶	3		
TOTAL	13		

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			
TOTAL	6		

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

¹Engineering 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.

²To be chosen from EE 5314, EE 5321, EE 5330, EE 5332, EE 5333 or PHYS 5382

³To 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).

⁴To be chosen from CSE 2340, CSE 2341, or CSE 2353 (Credit will not be given for both MATH 3308 and CSE 2353).

⁵To be chosen from ME 2310, ME 2320, ME 2331, ME 2342, ME 2351, or EMIS 2360

⁶To be chosen from CHEM 1304, PHYS 3305, PHYS 4392, PHYS 5337, PHYS 5380, or PHYS 5382