



SMU

BOBBY B. LYLE
SCHOOL OF ENGINEERING

2010-11 BS Electrical Engineering Degree Plan

Engineering Leadership Specialization

Last	First	Middle	SMU Student ID
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Dallas Address	Phone Number	Advisor
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General Education Curriculum (GEC): From Fall 2010 through summer 2011

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 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 ²	3		
Advanced EE Electives – Area II ³	3		
Advanced EE Electives – Area III ⁴	3		
EE 4311 – Senior Design I	3		
EE 4312 – Senior Design II	3		
TOTAL	56		

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 ⁵	3		
TOTAL	15		

GENERAL ENGINEERING

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

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		
TOTAL	9		

Total TCH: _____ (Minimum 125)

GRADUATION CERTIFICATION:

Advisor Date

Dept. Chair or Associate Chair Date

Assistant Dean Date

⁵Engineering 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.

⁶To be chosen from EE 5360, EE 5362/ME 5362, EE 5370, EE 5371, EE 5372, EE 5373, EE 5374, EE5375 or EE 5376

⁷To be chosen from EE 5356, EE 5357, EE 5387, EE 5381, EE 5385 or CSE 5385

⁸To be chosen from EE 5310, EE 5312, EE 5314, EE 5321, EE 5330, or EE 5332

⁹To 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).

⁶To 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

⁷To be chosen from CHEM 1304, PHYS 3305, PHYS 3344 or PHYS 3374