



2009-10 BS Electrical Engineering Degree Plan

Physics Dual Degree

Last First Middle SMU Student ID

Dallas Address Phone Number Advisor

General Education Curriculum (GEC)

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	1		
EE 2381 – Digital Computer Logic	3		
EE 2181 – EE Laboratory: Digital Computer Logic	1		
EE 3330 – Electromagnetic Fields & Waves or PHYS 4392	3		
EE 3360 – Statistical Methods in EE	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
EE 3322 – Electronic Circuits II	3		
EE 3122 – EE Laboratory: Electronic Circuits II	1		
EE 3311 – Solid State Devices	3		
EE 3372 – Introduction to Digital 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		
MATH 3353 – Introduction to Linear Algebra	3		
TOTAL	15		

COMPUTER SCIENCE

Courses	Hours	Semester & Year	Grade
CSE 1341 or CSE 1342	3		
TOTAL	3		

SCIENCE

Courses	Hours	Semester & Year	Grade
CHEM 1303 – General Chemistry I	3		
PHYS 1105 – General Physics Laboratory or PHYS 1106	1		
PHYS 1303 – Introductory Mechanics	3		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 3305 – Introduction to Modern Physics	3		
PHYS 3344 – Classical Mechanics	3		
PHYS 3374 – Thermodynamics and Statistical Mechanics or ME 3341	3		
PHYS 4211 – Laboratory Physics I	2		
PHYS 4321 – Methods of Theoretical Physics	3		
PHYS 5337 – Introduction to Solid State Physics	3		
PHYS 5382 – Introduction to Quantum Mechanics	3		
PHYS 5383 – Advanced Quantum Mechanics	3		
TOTAL	33		

Total TCH: _____ (Minimum 130)

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 5360, EE 5362/ME 5362, EE 5370, EE 5371, EE 5372, EE 5373, EE 5374 or EE 5375

³To be chosen from EE 5356, EE 5357, EE 5387, EE 5381, EE 5385 or CSE 5385

⁴To be chosen from EE 5310, EE 5312, EE 5314, EE 5321, EE 5330 or EE 5332