



2012-13 BS Electrical Engineering Degree Plan

Computer Engineering Specialization

Last	First	Middle	SMU Student ID
------	-------	--------	----------------

Dallas Address	Phone Number	Advisor
----------------	--------------	---------

See University Curriculum requirements in the Undergraduate Catalog.

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 3311 -- Solid State Devices	3		
EE 3322 – Electronic Circuits II	3		
EE 3122 – EE Laboratory: Electronic Circuits II	1		
EE 3330 -- Electromagnetic Fields and Waves	3		
EE 3360 – Statistical Methods in EE	3		
EE 3372 – Introduction to Digital Processing	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
EE 5381 (or CSE 4381) – Digital Computer Design	3		
EE 5385 (or CSE 5385) – Microprocessors in Digital Design	3		
Advanced Major Elective -- EE 5357, EE 5387 or CSE 5343	3		
Advanced Major Elective -- EE 5357, EE 5387 or CSE 5343	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 ²	3		
TOTAL	15		

COMPUTER SCIENCE

Courses	Hours	Semester & Year	Grade
CSE 1341 – Principles of Computer Science	3		
CSE 1342 – Programming Concepts	3		
CSE 2341 – Data Structures	3		
CSE 2353 – Discrete Computational Structures	3		
CSE 3353 – Fundamentals of Algorithms	3		
TOTAL	15		

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 ³	3		
TOTAL	13		

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 MATH 3315/ CSE 3365, MATH 3337 or MATH 3353 (Credit will not be given for both CSE 2353 & MATH 3308.)

³To be chosen from CHEM 1304, PHYS 3305, PHYS 3344 or PHYS 3374