SMU | BOBBY B. LYLE SCHOOL OF ENGINEERING

2012-2013 BS Computer Engineering Degree Plan

Last	First	Middle	SMU Student ID

Dallas Address	Phone Number	Advisor

See University Curriculum requirements in the Undergraduate Catalog.

MAJOR[1]

Courses	Hours	Semester & Year	Grade
CSE 1341 – Principles of Computer Science I	3		
CSE 1342 – Programming Concepts	3		
CSE 2240 – Assembly Language Programming & Machine Organization	2		
CSE 2341 – Data Structures	3		
CSE 3353 – Fundamentals of Algorithms	3		
CSE 3381 – Digital Logic Design	3		
CSE 4344 – Computer Networks and Distributed Systems	3		
CSE 4351 – Senior Design I	3		
CSE 4352 – Senior Design II	3		
CSE 4381 - Digital Computer Design	3		
CSE 5343 – Operating Systems & System Software	3		
CSE 5387 - Digital System Design	3		
EE 2122 – EE Laboratory: Electronic Circuits I	1		
EE 2322 – Electronic Circuits I	3		
EE 2350 – Circuit Analysis I	3		
EE 2370 – Design and Analysis of Signals and Systems	3		
EE 2170 – EE Laboratory: Design and Analysis of Signals and Systems	1		
TOTAL	46		

MAJOR TRACKS

Courses	Hours	Semester & Year	Grade
Hardware Track	**9**		
HWME[2]	3		
HWME[2]	3		
HWME[2]	3		
Software Track	**9**		
CSE 3345 – Graphical User Interface Design and Implementation	3		
CSE 4345 – Software Engineering Principles	3		
SWME[3]	3		
Networking Track	**9**		
NME[4]	3		
NME[4]	3		
NME[4]	3		

[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 CSE 5380, CSE 5381, CSE/EE 5385, and CSE/EE 5356
[3]To be chosen from CSE 5314, CSE 5316, and CSE 5319
[4]To be chosen from CSE 5344, CSE 5348, CSE 5349, and EE 5376
[5]Major Elective is any 3-hour CSE course numbered 4000 or above as approved by the adviser
[6]To be chosen from BIOL 1401, BIOL 1402, CHEM 1304, GEOL 1301, and PHYS 3305
.

SCHOOL OF ENGINEERING ADVANCED ELECTIVES (4000 Level or above, as approved by advisor)

Courses	Hours	Semester & Year	Grade
AME[5]	3		
AME[5]	3		
TOTAL	6		

ENGINEERING LEADERSHIP

Courses	Hours	Semester & Year	Grade
CSE 4360 – Technical Entrepreneurship	3		
EMIS 3308 – Engineering Management or CSE 5317 – Leadership for Architecting Software Systems	3		
CEE 3302 – Engineering Communications	3		
TOTAL	9		

MATHEMATICS & STATISTICS

Courses	Hours	Semester & Year	Grade
MATH 1337 – Calculus with Analytic Geometry I	3		
MATH 1338 – Calculus with Analytic Geometry II	3		
CSE 2353 – Discrete Computational Structures	3		
MATH 2343 – Elementary Differential Equations	3		
MATH 3353 – Introduction to Linear Algebra	3		
MATH 3315 or CSE 3365 – Introduction to Scientific Computing	3		
STAT 4340/5340, CSE 4340 or EMIS 3340 – Statistical Methods for Engineers & Scientists	3		
TOTAL	21		

SCIENCE

Courses	Hours	Semester & Year	Grade
PHYS 1303 – Introductory Mechanics	3		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 1106 – General Physics Laboratory	1		
CHEM 1303 – General Chemistry	3		
Science Elective[6]	3		
TOTAL	13		

White Degree Plan (For advising ONLY!)

Blue Degree Plan (For graduating seniors ONLY: Due at the beginning of the graduating semester.)

_____

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 CSE 5380, CSE 5381, CSE/EE 5385, and CSE/EE 5356
[3]To be chosen from CSE 5314, CSE 5316, and CSE 5319
[4]To be chosen from CSE 5344, CSE 5348, CSE 5349, and EE 5376
[5]Major Elective is any 3-hour CSE course numbered 4000 or above as approved by the adviser
[6]To be chosen from BIOL 1401, BIOL 1402, CHEM 1304, GEOL 1301, and PHYS 3305
.