SMU ENGINEERING

2008-09 BS Computer Engineering Degree Plan

Last	First	Middle	SMU Student ID

Dallas Address	Phone Number	Advisor

General Education Curriculum (GEC): From Fall 2008 through summer 2009

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			
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
CSE 1340 – Introduction to Computing Concepts	3		
CSE 1341 – Principles of Computer Science I	3		
CSE 2240 – Assembly Language Programming & Machine Organization	2		
CSE 2341 – Principles of Computer Science II	3		
CSE 3353 – Fundamentals of Algorithms	3		
CSE 3358 – Data Structures	3		
CSE 3381 – Digital Logic Design	3		
CSE 4344 – Computer Networks and Distributed Systems	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		
TOTAL	39		

MAJOR TRACKS[2]

Courses	Hours	Semester & Year	Grade
Hardware Track	**12**		
CSE 4386 – Hardware Design Project	3		
HWME[3]	3		
HWME[3]	3		
HWME[3]	3		
Software Track	**12**		
CSE 3345 – Graphical User Interface Design and Implementation	3		
CSE 4345 – Software Engineering Principles	3		
CSE 4346 – Software Engineering Design Project	3		
SWME[4]	3		

Networking Track	12		
CSE 4347 – Networks Design Project	3		
NME[5]	3		
NME[5]	3		
NME[5]	3		
TOTAL	12		

SCHOOL OF ENGINEERING ADVANCED ELECTIVES (5000 Level or above, as approved by advisor)

Courses	Hours	Semester & Year	Grade
Advanced Major Elective	3		
Advanced Major Elective	3		
Advanced Major Elective	3		
TOTAL	9		

ENGINEERING LEADERSHIP

Courses	Hours	Semester & Year	Grade
CSE 4360 – Technical Entrepreneurship	3		
EMIS 3308 – Engineering Management	3		
ENCE 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 5370 – 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		

Total TCH: _____ (Minimum 126)

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]Students must select one track from the 3 tracks listed (12 hours in each track).
[3]Nine hours of Hardware electives to be chosen from: CSE 5380, CSE 5381, CSE 5385/EE5385, EE 5356
[4]Three hours of Software electives to be chosen from: CSE 5314, CSE 5316, CSE 5319
[5]Nine hours of Networking electives to be chosen from: CSE 5344, CSE 5348, CSE 5349, EE 5376
[6]To be chosen from CHEM 1304, BIOL 1401, BIOL 1402, GEOL 1301, and PHYS 3305.