

# 2004-05 BS Computer Engineering Degree Plan

Last First	Middle		SMU Student ID	
Dallas Address	Phone Number		Advisor	
General Education Curriculum (GEC): From	Fall 2004 through summer 2005			
Courses		Hours	Semester & Year	Grade
ENGL 1301 – Written English I		3		
ENGL 1302 – Written English II		3		
Perspectives <sup>1</sup> – Arts				
Perspectives <sup>1</sup> – Literature				
Perspectives <sup>1</sup> – Religious & Philosophical Thou	ght			
Perspectives <sup>1</sup> – History				
Perspectives <sup>1</sup> – Politics & Economics				
Perspectives <sup>1</sup> – Behavioral Sciences				
Cultural Formations <sup>1</sup>				
Cultural Formations <sup>1</sup>				
Human Diversity requirement fulfilled by:		******		
Wellness I		1		
Wellness II		1		
TOTAL		23		
MAJOR				
Courses		Hours	Semester & Year	Grade
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		

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CSE 4344 – Computer Networks and Distributed Systems	3
CSE 4381 - Digital Computer Design	3
CSE 5343 – Operating Systems & System Software	3
EE 2122 – EE Laboratory: Electronic Circuits I	1
EE 2322 – Electronic Circuits I	3
EE 2350 – Circuit Analysis I	3
ΤΟΤΑΙ	33

# MAJOR TRACKS<sup>2</sup>

Courses	Hours	Semester & Year	Grade
Hardware Track	12		
CSE 4386 – Hardware Design Project	3		
HWME <sup>3</sup>	3		
HWME <sup>3</sup>	3		
HWME <sup>3</sup>	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 <sup>4</sup>	3		

Networking Track	12	
CSE 4347 – Networks Design Project	3	
NME⁵	3	
NME⁵	3	
NME⁵	3	
TOTAL	12	

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

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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		
EMIS 3309 – Information Engineering & Global Perspectives	3		
ENCE 3302 – Engineering Communications	3		
TOTAL	12		

#### **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 / CSE 3365 – Introduction to Scientific Computing	3		
STAT 4340 / CSE 4340 – 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 (3 SCH) <sup>6</sup>	3		
TOTAL	13		

Total TCH: (Minimum 123)

## White Degree Plan (For advising ONLY!)

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

Advisor

Dept. Chair or Associate Chair

Date

Date

Assistant Dean

Date

<sup>1</sup>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.
Students must select one track from the 3 tracks listed (12 hours in each track).
<sup>3</sup>Nine hours of Hardware electives to be chosen from: CSE 5380, CSE 5381, CSE 5385/EE5385, CSE 5387, CSE 'Three hours of Software electives to be chosen from: CSE 5314, CSE 5316, CSE 5319

<sup>5</sup> Nine hours of Networking electives to be chosen from: CSE 5344, CSE 5348, CSE 5349, EE 5376 <sup>6</sup> To be chosen from CHEM 1304, BIOL 1401, BIOL 1402, GEOL 1301, and PHYS 3305.