SMU ENGINEERING

2005-06 BS Computer Science Degree Plan

Last	First	Middle	SMU Student ID

Dallas Address	Phone Number	Advisor

General Education Curriculum (GEC): From fall 2005 through summer 2006

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	3		
Cultural Formations	3		
Human Diversity requirement fulfilled by:	*******		
Wellness I	1		
Wellness II	1		
TOTAL	29		

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 3342 – Programming Languages	3		
CSE 3345 – Graphical User Interface Design and Implementation	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 4345 – Software Engineering Principles	3		
CSE 4346 – Software Engineering Design Project	3		
CSE 4381 – Digital Computer Design	3		
CSE 5343 – Operating Systems & System Software	3		
TOTAL	38		

MAJOR TRACKS and Electives[2]

Courses	Hours	Semester & Year	Grade
Research Track	**14**		
CSE 5350 – Algorithm Engineering	3		
CSE 4397 – Research Experience for Undergraduates	3		
AME[2]	3		
Free ElectiveE[3]	3		
Free ElectiveE[3]	2		
Game Development Track	**14**		
CSE 5461 – Game Study	4		
CSE 5462 – Software Development for Games	4		
CSE 5463 – Mathematical Methods for Game Physics	4		
Free ElectiveE[3]	2		

Security Track	14		
CSE 5339 – Computer System Security	3		
CSE 5349 – Data and Network Security	3		
AME[2]	3		
Free Elective[3]	3		
Free Elective[3]	2		
General Track	**14**		
AME[2]	3		
AME[2]	3		
AME[2]	3		
Free Elective[3]	3		
Free Elective[3]	2		
TOTAL	14		

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 3315 or CSE 3365 – Introduction to Scientific Computing	3		
MATH 3353 – Introduction to Linear Algebra	3		
CSE 4340 or STAT 4340 – Statistical Methods for Engineers & Scientists	3		
TOTAL	18		

SCIENCE

Courses	Hours	Semester & Year	Grade
PHYS 1303 – Introductory Mechanics	3		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 1105 – General Physics Laboratory I	1		
PHYS 1106 – General Physics Laboratory II	1		
Science Elective[4]	3		
Science Elective[4]	3		
TOTAL	14		

LEADERSHIP/BROADENING COURSES

Courses	Hours	Semester & Year	Grade
CSE 4360 – Technical Entrepreneurship	3		
EMIS 3308 – Engineering Management	3		
ENCE 3302 – Engineering Communications	3		
TOTAL	9		

Total TCH: _____ (Minimum 122)

White Degree Plan (For advising ONLY!)

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

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Advisor **Date**

_____

Dept. Chair or Associate Chair **Date**

_____

Assistant Dean **Date**

[1]All students are exempt from 3 hours of Perspectives for a total of 15 hours. One of the selections for Perspectives or Cultural Formations must satisfy the Human Diversity Co-Requirement.
[2]AME to be chosen from: CSE 5314, CSE 5320, CSE 5330, CSE 5339, CSE 5341, CSE 5342, CSE 5344, CSE 5345, CSE 5348, CSE 5349, CSE 5350, CSE 5359, CSE 5376, CSE 5380, CSE 5381, CSE 5382, CSE 5385, CSE 5387
[3]The free electives must be approved by the advisor.
[4]To be chosen from ANTH 2315, ANTH 2363, BIOL 1401, BIOL 1402, CHEM 1113, CHEM 1114, CHEM 1303, CHEM 1304, CHEM 1307, CHEM 1308, GEOL 1301, GEOL 1305, GEOL 1307, GEOL 1308, GEOL 1313, and PHYS 3305