

SMU ENGINEERING

2009-2010 BS Computer Science Degree Plan

Premedical Specialization

Last	First	Middle	SMU Student ID
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Dallas Address	Phone Number	Advisor
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General Education Curriculum (GEC): From Fall 2009 through summer 2010

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 1341 – Principles of Computer Science I	3		
CSE 1342 – Programming Concepts	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 3330 – Database Concepts	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		
Advanced Major Elective ²	3		
TOTAL	44		

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		
STAT 4340/5340, EMIS 5370 or CSE 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		
CHEM 1303 – General Chemistry I	3		
CHEM 1304 – General Chemistry II	3		
CHEM 1113 – General Chemistry Laboratory I	1		
CHEM 1114 – General Chemistry Laboratory II	1		
CHEM 3371 – Organic Chemistry I	3		
CHEM 3372 – Organic Chemistry II	3		
CHEM 3117 – Organic Chemistry Laboratory I	1		
CHEM 3118 – Organic Chemistry Laboratory II	1		
BIOL 1401 – Introductory Biology I	4		
BIOL 1402 – Introductory Biology II	4		
BIOL 3304 – Genetics	3		
BIOL 3350 – Cell Biology	3		
TOTAL	38		

LEADERSHIP/BROADENING COURSES

Courses	Hours	Semester & Year	Grade
CSE 4360 – Technical Entrepreneurship	3		
ENCE 3302 – Engineering Communications	3		
TOTAL	6		

Total TCH: _____ (Minimum 129)

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

¹CS Pre-Med 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.

²AME 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