

# SMU ENGINEERING

## 2003-04 BS Computer Science Degree Plan Pre-Medical Specialization

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Last First Middle SMU Student ID

\_\_\_\_\_  
Dallas Address Phone Number Advisor

### General Education Curriculum (GEC): From fall 2003 through summer 2004

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 Thought			
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		
<b>TOTAL</b>	<b>23</b>		

### 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 – Discrete Mathematics with 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		
Advanced Major Elective <sup>2</sup>	3		
<b>TOTAL</b>	<b>41</b>		

### 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 / CSE 3365 – Introduction to Scientific Computing	3		
MATH 3353 – Introduction to Linear Algebra	3		
STAT 4340 / CSE 4340 – Statistical Methods for Engineers & Applied Scientists	3		
<b>TOTAL</b>	<b>18</b>		

## SCIENCE

Courses	Hours	Semester & Year	Grade
PHYS 1303 – Introductory Mechanics	3		
PHYS 1105 – General Physics Laboratory I	1		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 1106 – General Physics Laboratory II	1		
CHEM 1303 – General Chemistry I	3		
CHEM 1113 – General Chemistry Laboratory I	1		
CHEM 1304 – General Chemistry II	3		
CHEM 1114 – General Chemistry Laboratory II	1		
CHEM 3371 – Organic Chemistry I	3		
CHEM 3117 – Organic Chemistry Laboratory I	1		
CHEM 3372 – Organic Chemistry II	3		
CHEM 3118 – Organic Chemistry Laboratory II	1		
BIOL 1401 – Introductory Biology I	4		
BIOL 1402 – Introductory Biology II	4		
BIOL 3304 – Genetics	3		
BIOL 3306 - Physiology	3		
<b>TOTAL</b>	<b>38</b>		

## LEADERSHIP/BROADENING COURSES

Courses	Hours	Semester & Year	Grade
CSE 4360 – Technical Entrepreneurship	3		
EMIS 3308 – Engineering Management	3		
EMIS 3309 – Information Engineering and Global Perspectives	3		
ENCE 3302 – Engineering Communications	3		
<b>TOTAL</b>	<b>12</b>		

Total TCH: \_\_\_\_\_ (Minimum 132)

**GRADUATION CERTIFICATION:** (Graduating Seniors ONLY!)

\_\_\_\_\_  
Advisor Date

\_\_\_\_\_  
Dept. Chair or Associate Chair Date

\_\_\_\_\_  
Assistant Dean Date

**GRADUATING SENIORS:** You must file for graduation and declare all your majors/minors by the beginning of the semester in which you plan to graduate. If you do not file on time you will not graduate! You must also fill out, get signatures, and turn in your **DEGREE PLAN** (blue card stock sheet) one month before graduation! **Remember** to file for graduation for your additional major(s) outside the School of Engineering. GOOD LUCK!

<sup>1</sup>CS 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.

<sup>2</sup>The advanced major elective must 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, or CSE 5387.