

SMU ENGINEERING

2003-04 BS Electrical Engineering Degree Plan Biomedical Specialization

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 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
EE 1382 – Fundamentals of Electrical Engineering	3		
EE 2322 – Electronic Circuits	3		
EE 2122 – EE Laboratory: Electronic Circuits I	1		
EE 2350 – Circuits Analysis I	3		
EE 2370 – Design & Analysis of Signals & Systems	3		
EE 2170 – EE Laboratory: Design & Analysis of Signals & Systems	1		
EE 2381 – Digital Computer Logic	3		
EE 2181 – EE Laboratory: Digital Computer Logic	1		
EE 3372 – Introduction to Signal Processing	3		
EE 3381 – Microprocessors	3		
EE 3181 – EE Laboratory: Microprocessors	1		
EE 3360 – Statistical Methods in EE	3		
Junior EE Elective ²	3		
Junior EE Elective ²	3		
EE 4311 – Senior Design I	3		
EE 4312 – Senior Design II	3		
EE 5340 – Introduction to Biomedical Engineering	3		
EE 5345 – Biomedical Instrumentation	3		
Advanced Major Elective ³	3		
TOTAL	49		

MATHEMATICS

Courses	Hours	Semester & Year	Grade
MATH 1337 – Calculus with Analytic Geometry I	3		
MATH 1338 – Calculus with Analytic Geometry II	3		
MATH 2339 – Calculus with Analytic Geometry III	3		
MATH 2343 – Elementary Differential Equations	3		
Advanced Mathematics Elective ⁴	3		
TOTAL	15		

COMPUTER SCIENCE

Courses	Hours	Semester & Year	Grade
CSE 1341 – Principles of Computer Science I	3		
TOTAL	3		

SCIENCE

Courses	Hours	Semester & Year	Grade
PHYS 1303 – Introductory Mechanics ⁵	3		
PHYS 1304 – Introductory Electricity & Magnetism ⁵	3		
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		
TOTAL	36		

ENGINEERING LEADERSHIP (Select one of the following)

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

Total TCH: _____ (Minimum 129)

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!

¹Engineering 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.

²To be chosen from EE 3311, EE 3315, EE 3322, EE 3330, or EE 3373

³Must be approved by the student's advisor.

⁴To be chosen from MATH 3308, MATH 3315 / CSE 3365, MATH 3337, or MATH 3353

⁵Students planning on attending medical school are recommended to also take PHYS 1105 and 1106