

SMU ENGINEERING

2003-04 BS Mechanical Engineering Degree Plan Pre-Medical/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
ME 1202 – Introduction to Engineering	2		
ME 1102 – ME Laboratory: Introduction to Engineering	1		
ME 1305 – Information Technology & Society	3		
ME 2310 – Statics	3		
ME 2320 – Dynamics	3		
ME 2331 – Fundamentals of Thermal Sciences	3		
ME 2131 – ME Laboratory: Thermal Sciences	1		
ME 2340 – Mechanics of Deformable Bodies	3		
ME 2140 – ME Laboratory: Solid Mechanics	1		
ME 2342 – Fluid Mechanics	3		
ME 2142 – ME Laboratory: Fluid Mechanics	1		
ME 3332 – Heat & Mass Transfer	3		
ME 3132 – ME Laboratory: Heat & Mass Transfer	1		
ME 3340 – Engineering Materials	3		
ME 3370 – Manufacturing Processes	3		
ME 4338 – Thermal Systems Design	3		
ME 4370 – Elements of Machine Design	3		
ME 4380 – Mechanical Engineering Design I	3		
ME 4381 – Mechanical Engineering Design II	3		
ME 5322 – Vibrations	3		
Advanced Major Elective ²	3		
TOTAL	52		

MATHEMATICS/STATISTICS

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		
STAT 4340 – Statistical Methods for Engineers & Applied Scientists	3		
TOTAL	15		

SCIENCE

Courses	Hours	Semester & Year	Grade
BIOL 1401 – Introductory I	4		
BIOL 1402 – Introductory Biology II	4		
BIOL 3304 – Genetics	3		
BIOL 3306 – Physiology	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		
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		
TOTAL	38		

LEADERSHIP ELECTIVE

Courses	Hours	Semester & Year	Grade
EMIS 3308 or EMIS 3309 or ENCE 3302 or CSE 4360 ³	3		
TOTAL	3		

Total TCH: _____ (Minimum 131)

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.

²The advanced major elective must be one of the biomedical engineering courses ME5332, EE 5340 or EE 5345, or any 3000 level or higher ME course.

³EMIS 3308 – Engineering Management; EMIS 3309 – Information Engineering & Global Perspectives; ENCE 3302 – Engineering Communications; CSE 4360 – Technical Entrepreneurship