

SMU ENGINEERING

2005-06 BS Environmental Engineering Degree Plan

BS Math Dual Degree

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 [†] – Arts			
Perspectives [†] – Literature			
Perspectives [†] – Religious & Philosophical Thought			
Perspectives [†] – History			
Perspectives [†] – Politics & Economics			
Perspectives [†] – Behavioral Sciences			
Cultural Formations [†]			
Cultural Formations [†]			
Human Diversity requirement fulfilled by:	*****		
Wellness I	1		
Wellness II	1		
TOTAL	23		

MAJOR

Courses	Hours	Semester & Year	Grade
ENCE 1301 – Environmental & Technology: Ecology & Ethics	3		
ENCE 1331 – Meteorology	3		
ENCE 2304 – Introduction to Environmental Engineering & Science	3		
ENCE 2421 – Aquatic Chemistry	4		
ENCE 3323 – Water Resources Engineering	3		
ENCE 3431 – Fundamentals of Air Quality I	4		
ENCE 3341 – Introduction to Solid & Hazardous Waste Management	3		
ENCE 3451 – Principles of Industrial Hygiene, Occupational Health & Environmental Control	4		
ENCE 4354 – Environmental Engineering Principles & Processes	3		
ENCE 4380 – Environmental & Civil Engineering Design I	3		
ENCE 4381 – Environmental & Civil Engineering Design II	3		
Dual ENCE/MATH Elective ²	3		
Dual ENCE/MATH Elective ²	3		
TOTAL	42		

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		

BASIC ENGINEERING

Courses	Hours	Semester & Year	Grade
CSE 1340 or 1341 – Computer Science	3		
ENCE 2310 – Statics	3		
ENCE 2331 – Thermodynamics	3		
ENCE 2342 – Fluid Mechanics	3		
TOTAL	12		

SCIENCE

Courses	Hours	Semester & Year	Grade
BIOL 1401 – Introductory Biology I	4		
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		
PHYS 1303 – Introductory Mechanics	3		
PHYS 1105 – General Physics Laboratory I	1		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 1106 – General Physics Laboratory	1		
TOTAL	23		

ADDITIONAL MATH FOR DUAL MATHEMATICS DEGREE

Courses	Hours	Semester & Year	Grade
MATH 3315 (CSE 3365) Introduction to Scientific Computing	3		
MATH 3337 Advanced Mathematics for Science and Engineering	3		
Advanced MATH Elective ³	3		
Advanced MATH Elective ³	3		
TOTAL	12		

ADDITIONAL COURSES

Courses	Hours	Semester & Year	Grade
TOTAL			

Total TCH: _____ (Minimum 127)

White Degree Plan (For advising ONLY!)

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

GRADUATION CERTIFICATION:

Advisor Date

Dept. Chair or Associate Chair Date

Assistant Dean Date

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.

²Advisor's approval required when choosing two, dual ENCE/MATH electives from: ENCE 5331 Air Pollution Management and Engineering, ENCE 5332 Ground Water Hydrology and Contamination, ENCE 5334 Fate and Transport of Contaminants, and MATH 6336 (ME 5336) Intermediate Fluid Dynamics.

³Advanced MATH electives must be approved by the student's mathematics advisor.