SMU | BOBBY B. LYLE SCHOOL OF ENGINEERING

2010-11 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 2010 through summer 2011

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
CEE 1302 – Introduction to Civil & Environmental Engineering	3		
CEE 1331 – Meteorology	3		
CEE 2304 – Introduction to Environmental Engineering & Science	3		
CEE 2421 – Aquatic Chemistry	4		
CEE 3323 – Water Resources Engineering	3		
CEE 3431 – Fundamentals of Air Quality I	4		
CEE 3341 – Introduction to Solid & Hazardous Waste Management	3		
CEE 3451 – Principles of Industrial Hygiene and Occupational Health	4		
CEE 4380 – Civil & Environmental Engineering Design I	3		
CEE 4381 – Civil & Environmental Engineering Design II	3		
CEE 5317 – Environmental Organic Chemistry	3		
CEE 5354 – Environmental Engineering Principles & Processes	3		
CEE 5372 – Introduction to CAD	3		
Environmental Technical Elective[2]	3		
Environmental Technical Elective[2]	3		
TOTAL	48		

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 or STAT 5340– Statistical Methods for Engineers & Applied Scientists	3		
TOTAL	15		

BASIC ENGINEERING

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

SCIENCE

Courses	Hours	Semester & Year	Grade
CEE 5418 – Engineering Microbiology	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		
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	20		

FOR MATH DUAL 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 130)

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**

[1]Engineering 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.
[2]Advisor's approval required when enrolling in dual CEE/MATH electives; CEE 5331, CEE 5332,CEE 5334 or MATH 6336 (ME 5336).
[3]Advanced math electives must be approved by the student's math advisor.