

SMU ENGINEERING

2009-10 BS Civil Engineering Degree Plan BS Math Dual Degree

Last First Middle SMU Student ID

Dallas Address Phone Number Advisor

General Education Curriculum (GEC): From fall 2009 through summer 2010

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
ENCE 1302 – Introduction to Environmental & Civil Engineering	3		
ENCE 2304 – Introduction to Environmental Engineering & Science	3		
ENCE 2310 – Statics	3		
ENCE 2340 – Mechanics of Deformable Bodies	3		
ENCE 2140 – ENCE Laboratory: Mechanics of Materials	1		
ENCE 3323 – Water Resources Engineering	3		
ENCE 3350 – Structural Analysis	3		
ENCE 4350 – Design of Steel Structures	3		
ENCE 4351 – Design of Concrete Structures	3		
ENCE 4380 – Environmental & Civil Engineering Design I	3		
ENCE 4381 – Environmental & Civil Engineering Design II	3		
ENCE 4385 – Soil Mechanics & Foundations	3		
ENCE 5354 – Environmental Engineering Principles & Processes	3		
ENCE 5372 – Introduction to CAD	3		
ENCE 5378 – Transportation Engineering & Traffic Planning	3		
ENCE X3XX – Technical Elective ²	3		
ENCE X3XX – Technical Elective ²	3		
TOTAL	49		

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 1340 or 1341 – Computer Science	3		
ENCE 2320 – Dynamics	3		
ENCE 2331 – Thermodynamics	3		
ENCE 2342 – Fluid Mechanics	3		
ENCE 2142 – ENCE Laboratory: Fluid Mechanics	1		
TOTAL	13		

SCIENCE

Courses	Hours	Semester & Year	Grade
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 1304 – Introductory Electricity & Magnetism	3		
PHYS 1105 – General Physics Laboratory I	1		
PHYS 1106 – General Physics Laboratory II	1		
GEOL 1301 – Earth Systems	3		
TOTAL	19		

FOR DUAL MATH 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 131)

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 enrolling in dual ENCE/MATH advanced electives; ENCE 5361, ENCE 5364 or ME 5322.

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