

2006-2008 CATALOG YEAR

FOUR YEAR PLAN - CIVIL ENGINEERING

This is a suggested schedule for students wishing to complete their degree in 4 years. The number of units required in each semester can be reduced by moving some courses into summer school or by spreading the program out over a longer time period. All Civil Engineering students are required to meet with an advisor at least once a semester.

Freshman Year

Fall Semester		Spring Semester	
Course	Units	Course	Units
CE 196CE/L – Introduction to Engineering and Laboratory	2	MATH 150B – Calculus II	5
MATH 150A – Calculus I	5	PHYS 220A – Mechanics & Laboratory	4
CHEM 101 – Gen. Chem. & Laboratory	5	Government (ex. POLS 155)	3
Freshman Comp (ex. ENGL 155)	3	Oral Communication (ex. COMS 151/L)	3
Total Units	15	Total Units	15

Sophomore Year

Fall Semester		Spring Semester	
Course	Units	Course	Units
CE 240 – Engineering Statics	3	CE 280 – Computer Applications in Civil Engineering and Laboratory	2
MSE 227 – Engr. Materials & Laboratory	4	CE 308 – Surveying and Laboratory	3
MATH 250 – Calculus III	3	ECE 240 – Elect. Engineering Fund.	3
PHYS 220B – Elec. & Mag. and Lab.	4	MATH 280 – Applied Diff. Equations	3
American Hist. (ex. HIST 270 or 271)	3	GE Course *	3
		GE Course *	3
Total Units	17	Total Units	17

Junior Year **

Fall Semester		Spring Semester	
Course	Units	Course	Units
CE 340 – Strength of Materials	3	AM 316 – Engineering Dynamics	3
ME 309 – Num. Anal. Of Engr. Sys.	2	AM 317 – Mechanics Laboratory	1
ME 370 – Thermodynamics	3	CE 335 – Structures I and Laboratory	4
MSE 362 – Engineering Statistical Applications	3	CE 408 – Surveying with GPS Applications and Laboratory	2
MSE 304 – Engineering Economics	3	ME 390 – Fluid Mechanics	3
GE Course *	3	GE Course *	3
Total Units	17	Total Units	16

Senior Year

Fall Semester		Spring Semester	
Course	Units	Course	Units
CE 426 – Soil Mechanics and Laboratory	4	AM 410 – Mechanical Vibrations	3
CE 439 – Structural Steel Design	3	CE 438 – Reinforced Concrete Design	3
CE 460 – Hydrology and Laboratory	3	CE 488B – Senior Design II Laboratory	2
CE 488A – Senior Design I and Lab.	2	CE 526 – Geotechnical Found. Design	3
GE Course *	3	ME 493 – Hydraulics	3
Total Units	15	Total Units	14

* Nine (9) of these units **must** be upper division GE after the student has completed sixty (60) units of course work.

** Upper Division writing exam should be completed during the Junior Year.