

2006-2008 CATALOG YEAR

FIVE YEAR PLAN - CIVIL ENGINEERING

This is a suggested schedule for students wishing to complete their degree in 5 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. Students are encouraged to meet regularly with an advisor.

1st Year

Fall Semester		Spring Semester	
Course	Units	Course	Units
MATH 105 – Pre-Calculus ‡	5	CE 196CE/L – Intro. Civil Engr. and Lab.	2
CHEM 101/L – Gen. Chem. & Lab.	5	MATH 150A – Calculus I	5
Freshman Composition (ex. ENGL 155)	3	Government (ex. POLS 155)	3
		Oral Communication (ex. COMS 151/L)	3
Total Units	13	Total Units	13

2nd Year

Fall Semester		Spring Semester	
Course	Units	Course	Units
MATH 150B – Calculus II	5	CE 240 – Engineering Statics	3
PHYS 220A/L – Mechanics & Lab.	4	MATH 250 – Calculus III	3
American Hist. (ex. HIST 270 or 271)	3	PHYS 220B/L – Elec. & Mag. Lab.	4
		GE Course *	3
Total Units	12	Total Units	13

3rd Year **

Fall Semester		Spring Semester	
Course	Units	Course	Units
CE 280/L – Comp. App. in CE and Lab.	2	AM 316 – Engineering Dynamics	3
CE 308 – Surveying and Laboratory	3	CE 340 – Strength of Materials	3
ECE 240 – Elect. Engr. Fund.	3	CE 408 – Survey w/GPS App. and Lab.	2
MATH 280 – Applied Diff. Equations	3	ME 309 – Num. Anal. of Engr. Sys.	2
MSE 227 – Engr. Materials	3	MSE 227L – Engr. Materials Lab	1
		GE Course *	3
Total Units	14	Total Units	14

4th Year **

Fall Semester		Spring Semester	
Course	Units	Course	Units
AM 317 – Mechanics Laboratory	1	AM 410 – Mechanical Vibrations	3
CE 335/L – Structures I and Laboratory	4	CE 439 – Structural Steel Design	3
ME 370 – Thermodynamics	3	ME 390 – Fluid Mechanics	3
MSE 304 – Engineering Economics	3	MSE 362 – Engr. Statistical Applications	3
GE Course *	3		
Total Units	14	Total Units	12

5th Year

Fall Semester		Spring Semester	
Course	Units	Course	Units
CE 426 – Soil Mechanics & Lab	4	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
		GE Course *	3
Total Units	12	Total Units	14

‡ This course does not count in total units for graduation

* 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 3rd or 4th Year.