

CIVIL ENGINEERING 2007-2009

Freshman Year

Course Number	Old Course No.	Title	Fall	Spring
CHEM 111	CHEM 037	General Chemistry I	4	
CIVL 110	ME 025	Graphics for CE's	2	
GE Area A2		Written Communication	3	
MATH 120	MATH 007A	Analytic Geom. Calc. I	4	
CIVL 130 ^{fall only}	CE 010	Surveying	3	
MATH 121	MATH 007B	Analytic Geom. Calc. II		4
PHYS 204A	PHYS 004A	Mechanics		4
BIOL 101 or 108	BIOL 001 or 008	Biology		3
CIVL 131 ^{spring only}	CE 011	Intro. to CE Design		3
GE Area C1, C2 or C3 ^a		Arts and Humanities		3

Semester Units 16 17

Sophomore Year

Course Number	Old Course No.	Title	Fall	Spring
MECH 210	ME 045	Materials Sci. & Engr.	3	
MATH Elective ^b			3-4	
PHYS 204B	PHYS 004B	Elec. & Magnetism	4	
HIST 130	HIST 050	U. S. History	3	
GE Area A1 ^c		Oral Communication	3	
CIVL 211	CE 035	Statics		3
CIVL 205	CE 020	Comp. Apps. in Engr.		2
MATH 260	MATH 007D	Elem. Diff. Eqns.		4
POLS 155	POLS 055	American Government		3
Restr. Science Elective ^d				3-4

Semester Units 16-17 15-16

Junior Year

Course Number	Old Course No.	Title	Fall	Spring
CIVL 311	CE 101	Strength of Materials	4	
MECH 332	ME 152	Thermodynamics	3	
CIVL 321	CE 150	Fluid Mechanics	4	
MECH 320	ME 135	Dynamics	3	
GE Area D1, D2 or D3 ^a		Behavioral & Social Sci.	3	
CIVL 312	CE 102	Structural Testing Lab		1
CIVL 313	CE 153	Structural Mechanics	4	
CIVL 411 ^{spring only}	CE 250	Soil Mech. & Found.		4
CIVL 431 ^{spring only}	CE 288	Environ. Engineering		4
EECE 211	ECE 095	Linear Circuits I		3
EECE 211L	ECE 095L	Linear Circuits I Act.		1

Semester Units 17 17

Senior Year

Course Number	Old Course No.	Title	Fall	Spring
CIVL 415 ^{fall only}	CE 255	Reinf. Concrete Design	4	
CIVL 441 ^{fall only}	CE 270	Transportation Engr.	4	
CIVL 302	CE 121	Engr. Economy & Stats.	3	
Engr. Elective ^e			3	
GE Upper Div. Theme ^{a, f}			3	
GE Upper Div. Theme ^{a, f}				3
CIVL 402 ^{Writing Proficiency}	CE 119	Contracts, Specs.,		4
Engr. Elective ^e				3
Tech. Elective ^g				3
CIVL 495	ENGR 195	Lifelong Dev. for Engr.		3
Free Elective ^h				0-1

Semester Units 17 16-17

Total Minimum Semester Units Required 132

Footnotes:

^{fall only} Course taught only in fall semesters.

^{spring only} Course taught only in spring semesters.

^a Two cultural diversity courses (Ethnic and Non-Western) are also required; many GE Area C, Area D, and Theme courses double-count as Ethnic or Non-Western.

^b Math Elective - select MATH 220 *Analytic Geometry & Calculus III*, MATH 335 *Elementary Linear Algebra*, or MATH 350 *Introduction to Probability & Statistics*.

^c GE Area A1 - CMST 131 *Speech Communication Fundamentals* is preferred.

^d Restricted Science Elective - select CHEM 112 *General Chemistry II*, BIOL 211 *General Microbiology*, PHYS 204C *Heat, Wave, Sound, Light*, or GEOS 102 *Physical Geology*.

^e Engineering Elective - select from any 500-level CIVL, 400/500-level MECH, or 400-level EECE courses, or MECH 308 or MECH 338.

^f U. D. Themes - CE majors are only required to complete two courses from most themes - see your academic advisor to determine which two courses you may select.

^g Technical Elective - select from a list of courses approved by the CE Department - see your academic advisor for this list.

^h Depending on the electives selected, up to 1 unit of "free" elective (all or part of any additional course) may be needed to complete the 132 unit minimum required for the major.

Academic advising is required in the CE major. If you don't have an advisor or don't know whom s/he is, contact the CE Department office in LANG 207. You must communicate with your advisor prior to registering for classes in any semester.