

Civil Engineering Program 4-Year Study Plan*

First Year: First Semester (Freshmen)					First Year: Second Semester (Freshmen)				
Course code	Course Title	Credit Hours	Requisite		Course code	Course Title	Credit Hours	Requisite	
			Pre-	Co-				Pre-	Co-
MATH 101	Calculus I	4	MATH 002		MATH 102	Calculus II	4	MATH 101	
PHYS 101	General Physics I	4	MATH 002	MATH 101	PHYS 102	General Physics II	4	PHYS 101	
CHEM 101	General Chemistry	4			ENGL 102	Introduction to Report Writing	3	ENGL 101	
ENGL 101	First Year Composition	3	ENGL 005		CS 141	Introduction to Computing for Engineers	3		
GHAL xxx	Humanities, Arts and Languages Elective	3			ENGG 103	Introduction to Engineering Drawing	1		
					GDMC xxx	Diversity and Multiculturalism Elective	3		
Total		18			Total		18		
Second Year: First Semester (Sophomore)					Second Year: Second Semester (Sophomore)				
MATH 201	Differential Equations	3	MATH 102		MATH 202	Calculus III	3	MATH 102	
CE 201	Statics	3	PHYS 101		GEO 144	Geology	3		
CE 203	Computer Graphics	2	ENGG 103		CE 202	Dynamics	3	CE 201	
ME 201	Thermodynamics	3	PHYS 102, MATH 102		CE 212	Strength of Materials	3	ENGG 203 or CE 201 **	
ENGL 201	Technical Writing	3	ENGL 102		CE 262	Surveying	2	MATH 102	
GIAS 101	Islamic Culture	3			GIAS 102	Arabic Language Skills	3		
Total		17			Total		17		
Summer Field Experience I (Optional)			CE 294		1	Credit			
Third Year: First Semester (Junior)					Third Year: Second Semester (Junior)				
STAT 342	Statistical Methods for Engineers	3	MATH 102		CE 312	Reinforced Concrete Design	3	CE 311	
MATH 303	Numerical Methods	3	MATH 201		CE 332	Soil Mechanics	4	CE 212	
CE 301	Civil Engineering Materials	3	CE 212		CE 342	Water Resources Engineering	4	CE 303	
CE 303	Fluid Mechanics	3	CE 202, ME 201		CE 362	Transportation Engineering	3	CE 262	
CE 311	Structural Analysis	3	CE 212		CE 372	Introduction to Engineering Design	1		
GSOS xxx	Social Sciences Elective	3			GIAS xxx	Islamic Studies Elective	3		
Total		18			Total		18		
Summer Field Experience II			CE 394		1	Credit			
Fourth Year: First Semester (Senior)					Fourth Year: Second Semester (Senior)				
CE 411	Foundation Design	3	CE 332		ENGG 404	Engineering Economy	2		
CE 413	Steel Design	3	CE 311		CE 472	Construction Engineering & Management	3		
CE 451	Environmental Engineering	3	CHEM 101		CE 492	Capstone Project II	3	CE 491	
CE 491	Capstone Project I	1	Senior Status*** >= 98		CE 4xx	Professional Elective III	3		
CE 4xx	Professional Elective I	3			XXXX xxx	Free Elective	3		
CE 4xx	Professional Elective II	3							
Total		16			Total		14		
Total Credit Hours Required					137				

** (CE 201) for CE students, or (ENGG203) for AE students. ***Minimum of 98 earned credit Hours.

The English courses ENGL 111 and ENGL 112 can be taken as an elective within any of the areas ie GHAL, GDMC and GSOS

	General Compulsory Courses		Program Compulsory Courses
	General Elective Courses		Program Elective Courses
	College Compulsory Courses		Summer Field Experience

* Subject to minor changes if required.