CIVIL ENGINEERING (BS)

Program Requirements

Code	Title	Hours
	Education Courses	liouis
PHIL-3250	Ethics	3
THEO-2000	Christian Moral Life	3
Science and Mat		
CHEM-1200	General Chemistry I Lecture	4
& CHEM-1201	and General Chemistry I Laboratory	
CHEM-1210	General Chemistry II Lecture	4
& CHEM-1211	and General Chemistry II Lab	
Basic Science Ele	ective	4
MATH-1300	Calculus I	4
MATH-1350	Calculus II	4
MATH-2300	Calculus III	4
MATH-3100	Differential Equations	3
PHYS-2100	Classical Physics I	4
& PHYS-2101	and Classical Physics I Lab	
PHYS-2110	Classical Physics II	4
& PHYS-2111	and Classical Physics II Lab	
Engineering Cour		
CIVL-2000	Computing in Civil Engineering	1
CIVL-2150	Geomatics & Terrain Modeling Lab	2
CIVL-3010	Soil Mechanics & Civil Eng Materials Lab	2
CIVL-3020	Environmental & Hydraulic Engineeri Lab	2
CIVL-3510	Structural Mechanics	3
CIVL-3120	Soil Mechanics	3
CIVL-3230	Hydraulic Engineering	3
CIVL-3310	Environmental Engineering	3
CIVL-4600	Civil Engineering Design	3
CIVL-4700	Civil Engineering Seminar	1
CIVL-COMP	Senior Comprehensive Exam	0
ENGR-1200	Introduction to Engineering	2
ENGR-1500	Technical Drawing	2
ENGR-2300	Statics ¹	3
ENGR-2310	Dynamics	3
ENGR-2320	Mechanics of Materials ¹	3
ENGR-3150	Statistical Analysis of Data	3
ENGR-3170	Engineering Economy & Society	3
ENGR-3300	Fluid Mechanics	3
Engineering Elect	tive	3
Civil Engineering	Technical Electives	18
Basic Science Ele	ective	
Select one of the	following:	3-5
ASTR-3000	Observational Astronomy	
ASTR-4200	Solar System Astrophysics	
BIOL-1107	Principles of Biology	
BIOL-1121	General Biology I	
BIOL-3355	Ecology	
CHEM-2200	Organic Chemistry I Lecture	
& CHEM-2201	and Organic Chemistry I Lab	

NASC-1000	Environmental Science		
NASC-1100	Environmental Geology		
NASC-1400	Earth Science		
or other basic	science course as approved by the school		
Engineering Elec	tive		
Select one of the following:			
CENG-2010	Chemical Engineering Fundamentals		
EENG-2060/30	OdDinear Circuit Analysis I		
Any ENG-3000)+		
Any MENG-30	00+ course not already utilized for the civil		
engineering m			
Civil Engineering	Technical Electives		
Select 18 credits	of the following:	18	
CIVL-3550	Buidling Cmpt & System Design		
CIVL-4140	Foundation Engineering		
CIVL-4160	Transport Engineering		
CIVL-4210	Hydrology		
CIVL-4320	Environmental Engineering II		
CIVL-4440	Contracts & Specifications		
CIVL-4510	Steel Design		
CIVL-4530	Reinforced Concrete (or any CIVL-3000+ course)		
Total Hours 131-133			

¹ These courses must be completed with a "C" or better to proceed to the next class in Civil Engineering.

Courses required for the major may be repeated but students must pass all required courses on their first or second attempt.