BS IN CIVIL ENGINEERING

Below is a sample plan of study. Consult your degree audit for your program requirements.

	Hours	1
CIVE 3940	Co-Op Experience	1
Seventh Term	Hours	15
FE Elective		3
CIVE 3310	Structural Analysis	3
CIVE 3120	Civil Engineering Systems Analysis	3
CIVE 2110	Civil Engineering Materials With Laboratory	3
CIVE 1170	Fluid Mechanics For Civil Engineers	3
Sixth Term		
	Hours	1
CIVE 3940	Co-Op Experience	1
Fifth Term		
	Hours	15
Social Sciences Core		
Arts/Humanities	Core	3
CIVE I I OU	Engineering Mechanics: Strength Of Materials	3
CIVE 1160	Engineering Dynamics Engineering Mechanics: Strongth Of	3
MATH 2860 MIME 2300	Elementary Differential Equations	3
Fourth Term	Flomentary Differential Fausting	2
Countly Town	Hours	18
Science Elective	Harma	3
CIVE 1150	Engineering Mechanics: Statics	3
ON/E 1150	Majors II	_
PHYS 2140	Physics For Science And Engineering	5
MATH 2890	Numerical Methods And Linear Algebra	3
MATH 2850	Elementary Multivariable Calculus	4
Third Term		
	Hours	16
Social Sciences C	Core	3
CIVE 2000	Professional Development	1
11113 2130	Majors I	3
PHYS 2130	Physics For Science And Engineering	5
ENGL 2950 MATH 1860	Technical Writing Single Variable Calculus II	3
Second Term	Tooknical Writing	2
O	Hours	16
CIVE 1110	Computer Aided Drafting for Civil Engineers	1
CIVE 1100	Civil Engineering Measurements	3
CIVE 1000	Freshman Civil Engineering Experience	1
CHEM 1230	General Chemistry I	4
MATH 1850	Single Variable Calculus I	4
ENGL 1110	College Composition I	3
First Term		Hours
First Tarm		Hausa

Eighth Term		
CIVE 3210	Soil Mechanics	3
CIVE 3510	Transportation Engineering I	3
CIVE 3610	Water Supply And Treatment	3
CIVE 3630	Wastewater Engineering	3
Technical Electiv	ve	3
	Hours	15
Ninth Term		
CIVE 3940	Co-Op Experience	1
	Hours	1
Tenth Term		
CIVE 3220	Foundation Engineering	3
CIVE 3410	Steel Design I	3
CIVE 3420	Reinforced Concrete Design I	3
CIVE 3520	Transportation Engineering II	3
MIME 4000	Engineering Statistics I	3
	Hours	15
Eleventh Term		
CIVE 4750	Senior Design Projects	3
ENGT 3600	Engineering Economics	3
Technical Electiv	3	
Technical Elective		3
Diversity of US		3
Arts/Humanities Core/Non-US Diversity		3
	Hours	18
	Total Hours	131

- PLO 1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics. (Analysis)
- PLO 2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors. (Synthesis)
- PLO 3. An ability to communicate effectively with a range of audiences. (Application)
- PLO 4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts. (Application)
- PLO 5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives. (Application)
- PLO 6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions (Analysis)
- PLO 7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies. (Application) Educational objectives based on Bloom s taxonomy are given in brackets with each outcome.

