Civil Engineering - 4 Year Degree Plan

2026-2027

Lamar University's **Bachelor of Science in Civil Engineering** prepares you for a people-serving profession vital to the world's economic, political and social well-being. Civil engineers engage in a wide range of activities such as research, design, development, management and the control of engineering systems and their components. Upon graduation, you will be in high demand in various fields throughout many different industries. – Contact UAC at advising@lamar.edu, 409-880-8822, lamar.edu/findadvisor

NOTE: Degree plans may change over a four-year period. This may not be the most current list of course requirements for your program. It is always advised that you check Degree Audit in Banner Self-Serv or your advisor for the most up-to-date degree requirements and to track your progress toward a degree.

FIRST YEAR

Fall		Hours	Grade	Spring		Hours	Grade
MATH 2413	Calculus and Analytical Geometry I	4	____	ENGL 1301	Composition I	3	____
Communication		3	____	MATH 2414	Calculus and Analytical Geometry II	4	____
CVEN 1201	Introduction to Civil Engineering	2	____	PHYS 2425	University Physics I	4	____
HIST 1301	U.S. History I 1763-1877	3	____	CVEN 2370	Intro to CAD and Surveying	3	____
CHEM 1311 and CHEM 1111	General Chemistry I and General Chemistry I Laboratory	4	____	Creative Arts		3	____
	Hours	16	____		Hours	17	____

SECOND YEAR

Fall		Hours	Grade	Spring		Hours	Grade
PHYS 2426	University Physics II	4	____	PHIL 2306 or PHIL 1370	Ethics or Philosophy of Knowledge	3	____
CVEN 2301	Statics	3	____	INEN 2373	Engineering Economics	3	____
MATH 3370 or INEN 3320	Intro to Theory of Statistical Inference or Probability and Statistics for Eng	3	____	MEEN 2302	Dynamics	3	____
CVEN 3311	Introduction to Environmental Eng	3	____	CVEN 2372	Mechanics of Solids	3	____
MATH 2415	Calculus III	4	____	MATH 2320 or CVEN 2320	Ordinary Differential Equations or Diff Equations for Civil Eng	3	____
	Hours	17	____		Hours	15	____

THIRD YEAR

Fall		Hours	Grade	Spring		Hours	Grade
CVEN 3340	Structural Analysis	3	____	CVEN 3300	Engineering Materials Systems	3	____
CVEN 3351	Fluid Mechanics	3	____	CVEN 3360	Engineering Hydrology	3	____
CVEN 4365	Introduction to Transportation Engineering	3	____	CVEN 3370	Water and Wastewater Treatment	3	____
POLS 2301	Intro to American Government I	3	____	CVEN 3390	Geo-technical Engineering	3	____
HIST 1302	U.S. History II Since 1877	3	____	GEOL 1403 or BIOL 1406	Geology I: Physical Geology or General Biology I (Majors)	4	____
	Hours	15	____		Hours	16	____

	Fall		Hours	Grade	Spring		Hours	Grade
FOURTH YEAR	CVEN 4320 or CVEN 4370 or CVEN 4375	Engineering Project Management or Computer Aided Design or GIS for Civil Engineers	3	____	CVEN 4320 or CVEN 4370 or CVEN 4375	Engineering Project Management or Computer Aided Design or GIS for Civil Engineers	3	____
	CVEN 4340	Foundation Engineering	3	____	CVEN 4350	Hydraulic Engineering	3	____
	CVEN 4380	Reinforced Concrete Design	3	____	CVEN 4390	Structural Steel Design	3	____
	CVEN 4212	Civil Engineering Systems Design Project	2	____	CVEN 4313	Civil Eng System Design Project (II)	3	____
	CVEN 4110	Seminar	1	____				
	POLS 2302	Intro/American Government II	3	____				
		Hours	15	____		Hours	12	____