

Civil Engineering - 4 Year Degree Plan

2025-2026

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.

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			ENGL 1301	Composition I		
	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			PHIL 2306 or PHIL 1370	Ethics or Philosophy of Knowledge		
	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			CVEN 3300	Engineering Materials Systems		
	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	

FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	CVEN 4320 or CVEN 4370 or CVEN 4375	Engineering Project Management or Computer Aided Design or GIS for Civil Engineers			CVEN 4320 or CVEN 4370 or CVEN 4375	Engineering Project Management or Computer Aided Design or GIS for Civil Engineers		
	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	