

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

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

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

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