

Electrical Engineering B.S. - 4 Year Degree Plan

2025-2026

Lamar University's **Bachelor of Science in Electrical Engineering** focuses on technological innovation, shaping the future across industries in various fields that include electrical and electronic devices and circuits, communication systems, control and instrumentation, power systems, renewable energy, etc. You will have opportunities to collaborate with distinguished faculty, engage in cutting-edge research and develop skills that will prepare you to become leaders and innovators in the field of electrical engineering.

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		
	CHEM 1311 and CHEM 1111	General Chemistry I and Gen Chem I Laboratory	4		MATH 2414	Calculus and Analytical Geometry II	4	
	ELEN 1100	Introduction to ECE	1		PHYS 2425	University Physics I	4	
	Social and Behavioral Sciences		3		History		3	
	Communication		3		ELEN 1301	Computers and Programming I		
	Hours		15		Hours		14	
SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	MATH 2415	Calculus III	4		MATH 2320	Ordinary Differential Equations	3	
	MATH 2318	Linear Algebra	3		ELEN 3381	Electrical Analysis	3	
	PHYS 2426	University Physics II	4		ELEN 2411	Circuits Analysis I	4	
	INEN 3320 or MATH 3370	Probability and Statistics for Engineering or Intro to the Theory of Stat Inference	3		ELEN 3431	Digital System Design I	4	
	PHIL 1370 or PHIL 2306	Philosophy of Knowledge or Ethics	3					
THIRD YEAR	Hours		17		Hours		14	
	Fall		Hours	Grade	Spring		Hours	Grade
	ELEN 3312	Circuits Analysis II	3		ELEN 3322	Electronics II	3	
	ELEN 3421	Electronics I	4		ELEN 3313	Signals, Systems and Transforms	3	
	ELEN 3371	Electromagnetics	3		ELEN 3441	Fundamentals of Power Engineering	4	
	ELEN 4486	Embedded Microprocessor Systems	4		ELEN 4387	Computer Organization and Architecture	3	
FOURTH YEAR	POLS 2301	Intro to American Government I	3		POLS 2302	Intro/American Government II	3	
	Hours		17		Hours		16	
	Fall		Hours	Grade	Spring		Hours	Grade
	ELEN 4306	Senior Project Design I	3		ELEN 4307	Senior Project Design II	3	
	ELEN 4351	Control Engineering	3		ELEN	Elective 3000-4000	6	
COURSES	ELEN 4361	Communication Systems	3		History		3	
	ELEN	Elective 3000-4000	3					
	Creative Arts		3					
Hours		15			Hours		12	