

# 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
	<b>MATH 2413</b>	Calculus and Analytical Geometry I	4	_____	<b>ENGL 1301</b>	Composition I	3	_____
	<b>CHEM 1311 and CHEM 1111</b>	General Chemistry I and Gen Chem I Laboratory	4	_____	<b>MATH 2414</b>	Calculus and Analytical Geometry II	4	_____
	<b>ELEN 1100</b>	Introduction to ECE	1	_____	<b>PHYS 2425</b>	University Physics I	4	_____
	Social and Behavioral Sciences		3	_____	History		3	_____
	Communication		3	_____	<b>ELEN 1301</b>	Computers and Programming I		_____
	Hours		15	_____	Hours		14	_____
SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	<b>MATH 2415</b>	Calculus III	4	_____	<b>MATH 2320</b>	Ordinary Differential Equations	3	_____
	<b>MATH 2318</b>	Linear Algebra	3	_____	<b>ELEN 3381</b>	Electrical Analysis	3	_____
	<b>PHYS 2426</b>	University Physics II	4	_____	<b>ELEN 2411</b>	Circuits Analysis I	4	_____
	<b>INEN 3320 or MATH 3370</b>	Probability and Statistics for Engineering or Intro to the Theory of Stat Inference	3	_____	<b>ELEN 3431</b>	Digital System Design I	4	_____
	<b>PHIL 1370 or PHIL 2306</b>	Philosophy of Knowledge or Ethics	3	_____				_____
	Hours		17	_____	Hours		14	_____
THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	<b>ELEN 3312</b>	Circuits Analysis II	3	_____	<b>ELEN 3322</b>	Electronics II	3	_____
	<b>ELEN 3421</b>	Electronics I	4	_____	<b>ELEN 3313</b>	Signals, Systems and Transforms	3	_____
	<b>ELEN 3371</b>	Electromagnetics	3	_____	<b>ELEN 3441</b>	Fundamentals of Power Engineering	4	_____
	<b>ELEN 4486</b>	Embedded Microprocessor Systems	4	_____	<b>ELEN 4387</b>	Computer Organization and Architecture	3	_____
	<b>POLS 2301</b>	Intro to American Government I	3	_____	<b>POLS 2302</b>	Intro/American Government II	3	_____
	Hours		17	_____	Hours		16	_____
FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	<b>ELEN 4306</b>	Senior Project Design I	3	_____	<b>ELEN 4307</b>	Senior Project Design II	3	_____
	<b>ELEN 4351</b>	Control Engineering	3	_____	<b>ELEN</b>	Elective 3000-4000	6	_____
	<b>ELEN 4361</b>	Communication Systems	3	_____	History		3	_____
	<b>ELEN</b>	Elective 3000-4000	3	_____				_____
	Creative Arts		3	_____				_____
	Hours		15	_____	Hours		12	_____