

Electrical Engineering B.S. - 4 Year Degree Plan

2026-2027

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. - 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	___
	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	___				___
Hours		17	___	Hours		14	___	

THIRD YEAR	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	___
	POLS 2301	Intro to American Government I	3	___	POLS 2302	Intro/American Government II	3	___
Hours		17	___	Hours		16	___	

FOURTH YEAR	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	___
	ELEN 4361	Communication Systems	3	___	History		3	___
	ELEN	Elective 3000-4000	3	___				___
	Creative Arts		3	___				___
Hours		15	___	Hours		12	___	

