



# BACHELOR OF SCIENCE ELECTRICAL ENGINEERING

COURSES  
AVAILABLE  
ON CAMPUS  
OR ONLINE



**YOUR  
Moment  
IS HERE**

**START WITH CENTRAL TEXAS COLLEGE. FINISH AT LAMAR UNIVERSITY!**

## Your Future

The Lamar University Bachelor of Science Degree in Electrical Engineering focuses on the design and development of technology that controls and manages electrons and photons, or simply, electricity and light. You can develop careers in many different industries from telecommunications and electronics to aerospace and automotive as well as manufacturing of all kinds.

Lamar University ensures electrical engineering graduates are prepared for a career in automatic controls, bioelectronics, digital systems, electromagnetics, analog electronics, power and energy systems and communications and signal processing. With dedicated faculty and staff, you will be prepared to enter the workforce upon graduation.

### Career Opportunities

- Automatic controls
- Bioelectronics
- Digital systems
- Electromagnetics
- Analog electronics
- Power and Energy systems
- Communications processing

## LU SCHOLARSHIPS

AMOUNT/YEAR	TRANSFERABLE GPA	RENEWABLE?
<b>TRANSFER ACADEMIC EXCELLENCE SCHOLARSHIP*</b>		
<b>\$2,000</b>	3.5-4.0	YES
<b>\$1,500</b>	3.0-3.49	YES
<b>PHI THETA KAPPA (PTK) SCHOLARSHIP</b>		
<b>\$1,000</b>	3.0-3.49	YES

*\*Based on availability and for full-time students who have earned more than 30. but less than 90 transfer credits and enrolled in on-campus programs*

**TO APPLY FOR SCHOLARSHIPS**

- Complete your admissions application
- Visit [lamar.edu/myscholarships](http://lamar.edu/myscholarships)
- Complete the General Application

**PRIORITY DEADLINES**  
 Fall – July 1  
 Spring – December 1

## A.S. ENGINEERING

### FALL SEMESTER

HIST 1301 - US History I  
ENGL 1301 - Composition I  
Creative Arts Elective\*CA  
Comm Core Elect\*CO  
ENGR 1201 - Intro to Engineering

### SPRING SEMESTER

HIST 1302 - US History II  
GOVT 2305 - Federal Government  
MATH 2413 - Calculus I  
PHYS 2425 - Physics I

### SUMMER (if applicable)

MATH 2414 - Calculus II  
CHEM 1411 - Component Area Option  
MATH 2415 - Calculus III

### FALL SEMESTER

PHYS 2426 - Phy/Life Science Selection  
ENGR 2301 - Engineering Mechanics-Statics  
ENGR 2305 - Electrical Circuits I

### SPRING SEMESTER

GOVT 2306 - Texas Government  
ENGR 2332 - Mechanics of Materials  
Lang/Phil/Culture Selection  
ENGR 2302 - Engineering Mechanics-Dynamics  
Social/Behavioral Sci Selection

### SUMMER SEMESTER

ELEN 3101 - Advanced EE Lab  
ELEN 3328 - Quantum Mechanics 4 EEs  
ELEN 3431 - Digital Logic Design  
MATH 3301 - Differential Equations  
MATH 2318 - Linear Algebra

## B.S. ELECTRICAL ENGINEERING

### FALL SEMESTER

ELEN 3312 - Circuits II  
ELEN 3371 - Electromagnetics  
ELEN 3421 - Electronics I  
ELEN 4486 - Microcomputers I

### SPRING SEMESTER

ELEN 3313 - Signals & Systems  
ELEN 3322 - Electronics II  
ELEN 3381 - Electrical Analysis  
ELEN 3441 - Fund. Power Engr.  
ELEN 4387 - Microcomputers II

### FALL SEMESTER

ELEN 4306 - Senior Proj Design I  
ELEN 4351 - Control Engineering  
ELEN ElectiveEE  
ELEN ElectiveEE

### SPRING SEMESTER

ELEN 4307 - Sen Proj Design II  
MATH 3370 - Intro to theory of Statistical Inference  
ELEN ElectiveEE



**I'm ready to apply.  
What's next?**

**You've made a great choice!  
Follow the steps below to becoming a Cardinal.**

## HOW TO APPLY

### REQUIRED STEPS

1. Finish your degree at Central Texas College
2. Complete your application and transfer to Lamar University through ApplyTexas.org
3. Finish your Electrical Engineering degree on campus or online



OFFICE OF ADMISSIONS & RECRUITMENT  
**LAMAR UNIVERSITY**



/lamaruadmissions  
@lamaruadmissions

**PLANAVISITTOCAMPUS** (409) 880-8316

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