Electrical Engineering | Bachelor's Degree



	FIRST YEAR	MIDDLE YEARS	LAST YEARS
ADVANCE your academic journey	Meet with a <u>First Year Advisor</u> to develop your academic planning.	Visit the COSE <u>Advising Center</u> for guidance with successful degree completion, identifying resources, and help achieving academic, personal, and professional goals.	Check your Degree Audit & meet with your academic advisor.
	Participate in the Experiential Education Certificate Program.	Regularly check the <u>curricula and flowchart</u> pre-requisites and co-requisites for courses may change over time.	Explore next steps including potential graduate programs.
	Visit TXST One Stop or BOSS for scholarship opportunities.	Explore external scholarship opportunities such as the <u>Fulbright</u> Scholarship to take your expertise to unique locations abroad.	Complement your degree with a micro credential. Complete a capstone project related to major.
		Explore <u>Campus Resources</u> for academic and personal support.	Create and update a digital portfolio of academic work and experiences.
EXPAND your personal and social development	Review your degree plan for courses that include the Service-Learning Excellence program.	Consult your academic advisor and learn about <u>scholarship opportunities</u> . Meet with an advisor in Education Abroad or Study in America to explore financial aid	Select a service activity through <u>Student Involvement</u> to give back to the area community.
	Begin expanding your student experience by joining a student organization through the <u>Bobcat Organization HUB</u> .	options. Expand your leadership skills through <u>Student Involvement's Leadership & Service</u>	Participate in <u>Senior Design Day</u> to showcase your skills.
		programming and workshops. Join engineering student organizations and collaborate on faculty-led research.	Attend a <u>Student Government Senate</u> meeting to contribute to the TXST community.
		Explore <u>Ingram Hall Makerspace (ISoE)</u> to apply your skills and bring ideas to life.	Seek out a leadership role with the <u>Leadership &</u> <u>Service</u> .
		Participate in <u>The Big Event</u> to give back to the regional community.	•
ENRICH your practical competence	Explore the <u>TXST One Stop</u> for more information about the scholarships provided to new and continuing students.	Consider the <u>Cooperative Education</u> program to gain valuable real-world experience.	Join a professional organization in your major or passion.
	Attend an <u>IDEA Center</u> workshop to learn more about undergraduate research.	Check out the <u>Collaborative Learning Center's (CLC) computer lab</u> , free walk-in STEM tutoring, and resources like a textbook library and TI-83+ calculators to enhance your learning.	Attend a conference related to your major (get recommendations from a faculty) or your student organization.
	Consider the <u>STEM Communities Learning Assistance</u> program.	Learn about Global Career Accelerator options that give you experience with global companies and in-demand tech skills.	Deliver a presentation in a student conference, workshop, seminar or community organization.
		Discover <u>Global Online Learning Experiences</u> for courses with culturally dynamic perspectives.	
ELEVATE your career and professional life	Complete your <u>Career Assessments</u> , such as Focus2.	Build <u>Career & Graduate School Fairs</u> into your schedule to ensure your connection maximum opportunities.	Develop a full-time employment or graduate school plan with <u>Career Services</u> .
	Create your <u>Handshake</u> profile.	Join Employer Information Sessions at Career Services or your department.	Complete your <u>First Destination Survey</u> to share your post-graduation plans.
	Create your <u>LinkedIn</u> profile and connect with colleagues and leaders.	Prepare to <u>ace your job interviews</u> with Career Services or your academic department.	ldentify faculty and professional references.
	Develop and review your <u>resume</u> with Career Services.		
— >0			
			:

Ingram School of Engineering P: 512.245.1826 engineering@txstate.edu Member the texas state university system OUTCOMES

Electrical Engineering | Bachelor's Degree



OUTCOMES

Marketable Skills

Think critically

Analyze and solve problems

Communicate clearly and effectively

Develop and conduct appropriate experimentation, analyze data, and use engineering judgment to draw conclusions in areas such as robotics, microprocessors and embedded systems, networks, circuit design, chip design, multimedia systems, and programming

Function effectively on a team of engineers to invent, design and build devices such as digital systems and computers, control systems, microelectronics, communication systems and signal processing, robotics, and software applications

See more marketable skills for this major

Experiences in Electrical Engineering

The bachelor of science degree with a major in electrical engineering is designed to provide students with the mathematics, science, management, engineering and applications skills needed to work in various industries designing and producing electrical and electronic devices, systems and services. Three specializations are available: networks and communications systems, micro and nano devices and systems, and computer engineering, which is a separately-accredited program within the electrical engineering program and for which a concentration is declared. Senior design or "capstone" activities incorporate appropriate engineering standards and multiple constraints and is based on knowledge and skills acquired in earlier course work. An optional cooperative education program is available or students may participate in internships which develop both design and industry awareness and expertise. Membership in student organizations, research initiatives and opportunities to apply for nationally recognized service activities contribute to their experience.

Career Opportunities

Circuits engineer

Design engineer

Electrical controls engineer

Electrical design engineer

Electrical engineer

Electrical project engineer

Instrumentation and Electrical (I&E)

reliability engineer

Power systems engineer

Project engineer

Test engineer

Computer engineer

Microelectronics engineer

Telecommunications engineer

Ingram School of Engineering P: 512.245.1826 engineering@txstate.edu мемвек тне техаs state university system