UT Permian Basin

Bachelor of Science in Electrical Engineering

COLLEGE OF ENGINEERING

Degree Map | 2019-2020

	YOUR CLASS SCHEDULE	ACADEMIC ADVISING	ENRICHING EXPERIENCES	LIFELONG SUCCESS
Freshman	• Complete core courses recommended for your degree plan • Focus on English, Calculus, Chemistry, Physics, and Programming courses • Enroll in 16 credit hours in Fall semester and 17 credit hours in Spring semester.	• Participate in New Student Orientation • Meet with your Academic Advising Center Freshman Advisor before registration. • Ask you Advisor about the College of Engineering recommended core courses for your degree plan	***Prioritize Your Wellness*** • Participate in campus recreation • Attend Financial Literacy seminars • Form healthy study habits ***Build Your Community*** • Use FalconLink & attend Club Day • Volunteer • Attend campus events ***Explore Your World*** • Attend an athletics event, musical performance, or visit the art gallery	***Build Your Brand*** • Draft your resume • Register for the Job Board • Seek freshman research opportunities ***Craft Your Future*** • Explore career options • Have coffee with a faculty member
Sophomore	• Complete core courses recommended for your degree plan • Complete Physics II and Fundamentals of Circuits Analysis courses. • Enroll in 15 credit hours in Fall semester and 17 credit hours in Spring semester.	• Meet with your Academic Advising Center Advisor before registration. • Ask your Advisor about the College of Engineering recommended core courses for your degree plan	***Prioritize Your Wellness*** • Enjoy outdoor spaces on campus ***Build Your Community*** • Join an organization (ex: AIChE or SPE) • Explore campus leadership (SGA, Orientation Leader, Resident Asst.) ***Explore Your World*** • Consider study abroad • Attend a lecture series	***Build Your Brand*** • Update your resume • Join LinkedIn • Consider student employment ***Craft Your Future*** • Participate in mock interviews • Attend an internship/career fair • Seek summer internship opportunities
Junior	• Focus on Electrical Engineering courses • Enroll in 16 credit hours both in Fall and spring semesters.	• Meet with your Electrical Engineering Academic Advisor before registration.	***Prioritize Your Wellness*** • Attend a health fair ***Build Your Community*** • Run for organization officer role • Apply to be a Falcon Ambassador ***Explore Your World*** • Consider study abroad • Participate in service learning	***Build Your Brand*** • Update your resume • Attend workshops on job hunting and interviewing • Conduct research with faculty ***Craft Your Future*** • Search for summer internships or fellowships
Senior	• Focus on Electrical Engineering courses • Enroll in 16 credit hours in Fall semester and 13 credit hours in Spring semester.	• Meet with your Electrical Engineering Academic Advisor before registration. • Discuss senior design projects with your advisor.	***Prioritize Your Wellness*** • Attend financial literacy seminars ***Build Your Community*** • Attend your ring ceremony • Join Alumni Association upon graduation ***Explore Your World*** • Consider study abroad (summer prior to senior year)	***Build Your Brand*** • Update your resume • Present research ***Craft Your Future*** • Apply for full time jobs

UTPB students will graduate with these skills:

- Leadership
- Problem-solving
- Communication
- Critical Thinking
- Collaboration
- Confidence
- Global Awareness
- Teamwork
- Volunteering

Career opportunities:

- Aerospace, Automotive, Manufacturing, Oil and Gas
- NASA, Department of Defense, Power & consulting companies

College of Engineering | New Engineering Building, Room 3.100G | 432-552-3453 | Jamali_m@utpb.edu

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BS in Electrical Engineering (BSEE) REQUIREMENTS

Semester 1
ENGL 1301 English Composition I
HIST 1301 History of the U. S. to 1877
MATH 2413 Calculus I
CHEM 1311 General Chemistry I
CHEM 1111 General Chemistry I Laboratory
EENG 1210 Electrical Engineering Graphics
16 hours

Semester 2
ENGL 1302 English Composition II
HIST 1302 History of the U. S. since 1877
EENG 1303 Object-Oriented Programming
MATH 2414 Calculus II
PHYS 2325 University Physics I
PHYS 2125 University Physics I Laboratory
17 hours

Semester 3
MATH 2415 Calculus III
PHYS 2326 University Physics II
PHYS 2126 University Physics II Laboratory
MATH 3310 Linear Algebra
ENGR 2403 Engr. Mech: Statics & Dynamics
15 hours

Semester 4
EENG 3373 Engineering Probability and Statistics
MATH 3320 Differential Equations
ENGR 2305 Fundamentals of Circuit Analysis
EENG 2105 Fundamentals of Circuits Lab
EENG 2401 Digital Circuits Design
PLSC 2305 American National Politics
17 hours

Semester 5
EENG 3303 Electromagnetics
EENG 3380 Signals and Systems
EENG 3304 Electric Circuits
COMM 1314 Intro to Public Speaking
EENG 3306 Electronic Circuits Analysis I
EENG 3106 Electronic Circuits Analysis I Lab
16 hours

Semester 6
EENG 3309 Electronic Circuits Analysis II
EENG 3314 Design Methods in Electrical Engineering
EENG 3307 Microprocessors
EENG 4330 Electric Machines
ENGR 4195 Professional Practice
ENGL 23xx Language/Philosophy/Cultural Course
16 hours

Semester 7
EENG 4325 Communication Theory
Visual/Performing Arts (3 credit hours)
EENG 4310 Electric Power Systems
EENG 4110 Electric Power Systems Laboratory
EENG 4300 level Technical Elective
Social and Behavioral Science Course (3 credit hours)
16 hours

Semester 8
EENG 4340 Control Systems
EENG 4460 Senior Design
PLSC 2306 State and Local Politics
EENG 4300 level Technical Elective
13 hours

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