

Bachelor of Science

MECHANICAL ENGINEERING

Degree Map | 2020-2021

	YOUR CLASS ACADEMIC		ENRICHING	LIFELONG	
	SCHEDULE	ADVISING	EXPERIENCES	SUCCESS	
Freshman	Focus on General Education, Math, and Science courses Enroll in 16 and 17 credit hours in Fall and Spring semesters, respectively	Participate in New Student Orientation Meet with your Academic Advising Center Freshman Advisor before registration Ask you Advisor about the recommended course sequencing 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 student chapters of professional societies: ASME, SAE, ANS, SWE 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 Investigate industrial tracks in mechanical engineering: nuclear power and petroleum Have coffee with a faculty member Seek summer internship opportunities	
Sophomore	Complete basic math and science courses Start core engineering courses Enroll in 17 and 15 credit hours in Fall and Spring semesters, respectively	Meet with your Academic Advising Center Freshman Advisor before registration Verify course sequencing with your academic advisor	•Actively participate in the professional society of your choice <i>Prioritize Your Wellness</i> • Enjoy outdoor spaces on campus <i>Build Your Community</i> • Join an organization • Explore campus leadership (SGA, Orientation Leader, Resident Asst.) • Participate in a professional society <i>Explore Your World</i> • 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 Explore professional licensing of engineers Attend an internship/career fair Continue summer internship	
Junior	Complete core engineering courses Start mechanical engineering courses If completing an industrial track, begin track courses Enroll in 17 and 15 credit hours in Fall and Spring semesters, respectively	Meet with your engineering academic advisor before registration Verify course sequencing with your engineering academic advisor	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 Commit to preparing for the Fundamentals of Engineering Examination in the semester prior to graduation Continue with summer internship program	
Senior	Complete mechanical engineering courses Complete industrial track courses Enroll in 14 and 15 credit hours in Fall and Spring semesters, respectively	Meet with your engineering academic advisor before registration Finalize course selections for spring graduation	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 Prepare for the Fundamentals of Engineering Examination in the spring semester Attend career fairs Apply for full time jobs	

UTPB students will graduate with these skills: Career opportunities:

Leadership

Problem-solving

- •Engineering Design
- Social Responsibility
- Communication Confidence
- •Global Awareness
- •Teamwork
- Critical Thinking

- •Design Engineer
- Manufacturing
- Technical Sales
- •HVAC Design
- Project Manager
- Process Control
- College of Engineering | Engineering Building, Room 2.202 | 432-552-3430 | engineering@utpb.edu



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BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING REQUIREMENTS

Semester 1 ENGL 1301 HIST 1301 MATH 2413 CHEM 1311 CHEM 1111 ENGR 1204	English Composition I U.S. History to 1877 Calculus I General Chemistry I General Chemistry I lab Engineering Graphics	16 hours	Semester 2 ENGL 1302 HIST 1302 COMM 1315 MATH 2414 PHYS 2325 PHYS 2125	English Composition II U.S. History Since 1877 Introduction to Public Speaking Calculus II University Physics I University Physics I Lab	17 hours
Semester 3 PLSC 2305 Creative Arts MATH 2415 PHYS 2326 PHYS 2126 ENGR 2301		17 hours	ENGR 2302	Introduction to Probability I Differential Equations Introduction to Materials Science Engr. Mechanics: Dynamics Fund. of Circuit Analysis	15 hours
ENGR 3375 ENGR 3354 ENGR 3390 MENG 3206	Mechanics of Materials Intro. to Thermodynamics Intro. to Fluid Mechanics Engineering Programming Mechanical Engr. Lab I Linear Algebra	17 hours	MENG 3351 MENG 3356 MENG 3364	CompAided ME Design Heat Transfer Fluid Mechanics II Mechanical Design I Thermodynamics II	15 hours
MENG 4205 MENG 43XX MENG 43XX	Manufacturing Processes T/F and Mech. Sys. Lab Technical Elective Technical Elective Phavioral Science Course	14 hours	MENG 4206 MENG 4478 Language, Ph	Engineering Economics ME Laboratory II Senior Design nilosophy and Culture Course State and Local Politics	15 hours