

# COLLEGE OF ENGINEERING

## Bachelor of Science, Mechanical Engineering

### Four-Year Academic Map 2024-2025

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total	
	CHEM 1311	Fundamentals of Chemistry*	3	CHEM 1312	Fundamentals of Chemistry 2*	3		
	CHEM 1111	Fundamentals of Chemistry Lab	1	CHEM 1112	Fundamentals of Chemistry Lab	1		
	ENGL 1301	First Year Writing I*	3	ENGL 1331	Computing for Engineers	3		
	MATH 2413	Calculus I*	4	MATH 2414	Calculus II*	4		
	GOVT 2306	U.S. & TX Constitution & Politics*	3	PHYS 2325	University Physics I	3		
	ENGI 1100	Introduction to Engineering	1	ENGL 1302	First Year Writing II*	3		
	Semester Hours			15	Semester Hours			17

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total		
	ENGR 2301	Mechanics I	3	ENGI 2304	Technical Communications*	3			
	GOVT 2305	U.S. Government*	3	MATH 3321	Engineering Mathematics	3			
	MATH 2415	Calculus III	4	MECE 2334	Thermodynamics I	3			
	PHYS 2326	Physics II	3	MECE 3336	Mechanics II	3			
	CORE	Language, Philosophy & Culture*	3	MECE 2361	Intro to Mechanical Design	3			
	Semester Hours			16	Semester Hours			15	31

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total	
	MECE 3338	Dynamics & Control of Mech Sys	3	HIST 1302	The United States Since 1877*	3		
	MATH 3363	Intro Partial Differential Equations	3	MECE 3245	Materials Science Lab	2		
	MECE 3369	Solid Mechanics	3	MECE 3381	Intro to Finite Element Methods	3		
	MECE 3345	Materials Science	3	MECE 3360	Experimental Methods	3		
	CORE	Social & Behavioral Sciences*	3	MECE 3363	Intro to Fluid Mechanics	3		
	HIST 1301	The United States To 1877*	3	CORE	Creative Arts*	3		
	Semester Hours			18	Semester Hours			17

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total		
	MECE 4364	Heat Transfer	3	MECE 4341	Mechanical Engr Capstone II	3			
	MECE 4340	Mechanical Engr Capstone I	3	MECE 4371 <i>or</i> MECE 4372	Thermal-Fluids Lab <i>or</i> Mechanics-Controls-Vibration Lab	3			
	MECE 53XX	Mechanical Engr Elective	3	MECE 53XX	Mechanical Engr Elective	3			
	MECE 4331	Design of Machine Elements	3	MECE 53XX	Mechanical Engr Elective	3			
	MECE 4343	Thermal Design	3	MECE 53XX	Mechanical Engr Elective	3			
	Semester Hours			15	Semester Hours			15	30
								128	

\*State of Texas Core Curriculum

Students should meet with their academic advisor to formulate their own plan.