

# Mechanical Engineering B.S. - 4 Year Degree Plan

2025-2026

Lamar University's **Bachelor of Science in Mechanical Engineering** prepares you for a career in machine design, systems design, energy resources and conversion, manufacturing and production, transportation and environmental impact, materials and structures and aerospace. This program offers you an engineering degree in a broad discipline incorporating the research, design, development, manufacturing and testing of mechanical devices.

NOTE: Degree plans may change over a four-year period. This may not be the most current list of course requirements for your program. It is always advised that you check Degree Audit in Banner Self-Serv or your advisor for the most up-to-date degree requirements and to track your progress toward a degree.

FIRST YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	Communication		3		POLS 2301	Intro to American Government I	3	
	MATH 2413	Calculus and Analytical Geometry I	4		ENGL 1301	Composition I	3	
	CHEM 1311 and CHEM 1111	General Chemistry I and Gen Chem I Lab	4		MATH 2414	Calculus and Analytical Geometry II	4	
	American History		3		PHYS 2425	University Physics I	4	
	Creative Arts Elective		3		American History		3	
	Hours		17		Hours		17	
SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	MEEN 2112	Introduction to Programming	1		MATH 2320	Ordinary Differential Equations	3	
	MATH 2415	Calculus III	4		MEEN 2302	Dynamics	3	
	PHYS 2426	University Physics II	4		MEEN 2372	Mechanics of Solids	3	
	MEEN 2301	Statics	3		INEN 2373	Engineering Economics	3	
	MEEN 2213	Introduction to Design	2		MEEN 2374	Thermodynamics I	3	
	MATH 2318	Linear Algebra	3					
	Hours		17		Hours		15	
THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	PHIL 2306	Ethics	3		MEEN 3210	Measurements Lab	2	
	MEEN 3340	Engineering Analysis	3		MEEN 3310	Heat Transfer	3	
	MEEN 3311	Fluid Mechanics	3		MEEN 3300	Design of Mechanism	3	
	INEN 3322	Eng Materials/Manufacturing Processes	3		MEEN 3320	Mechanical Design I	3	
	ELEN 3310	Fundamentals of Electrical Engineering	3		INEN 4320 or MATH 3370	Statistical Decision Making in Engineering or Intro to Theory of Statistical Inference	3	
	Hours		15		POLS 2302	Intro/American Government II	3	
	Hours		15		Hours		17	
FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	MEEN 4110	Seminar	1		MEEN 4316	Engineering Design Project	3	
	MEEN 4310	Integrated System Design	3		MEEN 4317	Dynamic Systems Analysis	3	
	MEEN 4313	Thermal Systems Design	3		MEEN Technical Elective		3	
	MEEN 4319	Materials Science	3		Free Elective		3	
	MEEN 4323	Mechanical Design II	3					
	MEEN Technical Elective		3					
	Hours		16		Hours		12	