

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	_____
					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	_____