

Industrial Engineering B.S. - 4 Year Degree Plan

2025-2026

Lamar University's **Bachelor of Science in Industrial Engineering** allows you to learn from faculty members who are experts in supply chain management, safety, quality, logistics, reliability, operations research, design and manufacturing, project management, six sigma and "lean" engineering. Industrial engineers design how everybody and everything works, from airport security checkpoints to emergency evacuations, in order to help companies operate effectively and competitively.

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
	American History	MATH 2413			ENGL 1301	Composition I		
		Calculus and Analytical Geometry I	3		INEN 2360	Computer Applications in IE	3	
	CHEM 1311 and CHEM 1111	General Chemistry I and Gen Chem I Lab	4		MATH 2414	Calculus and Analytical Geometry II	4	
	INEN 1101	Introduction to Engineering	1		PHYS 2425	University Physics I	4	
	COMM 1315	Public Speaking I	3					
		Hours	15			Hours	14	

SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	PHYS 2426	CVEN 2301 or MEEN 2301			CHEM 1312 and CHEM 1112	General Chemistry II and Gen Chem II Lab		
	University Physics II	Statics or Statics	4		INEN 3380	Work Design	3	
	MATH 2318	Linear Algebra	3		ELEN 3310	Fundamentals of Electrical Engineering	3	
	INEN 2373	Engineering Economics	3		MATH 3301	Ordinary Differential Equations	3	
	INEN 3322	Eng Materials and Manufacturing Processes	3		POLS 2301	Intro to American Government I	3	
		Hours	16			Hours	16	

THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	PHIL 2306	INEN 4315			INEN 4320	Statistical Decision Making in Engineering		
	Ethics	Industrial Management	3		INEN 4345	Computer Integrated Manufacturing	3	
	INEN 4350	Production and Inventory Control	3		INEN 4370	Operations Research	3	
	INEN 3320	Probability and Statistics for Engineering	3		HIST 1302	U.S. History II Since 1877	3	
		INEN/TECH Elective	3		INEN/TECH Elective		3	
		Hours	15			Hours	15	

FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	INEN 4323	INEN 4375			POLS 2302	Intro/American Government II		
	IE Systems Design	Simulation of Industrial Systems	3		INEN 4385	IE Design	3	
	INEN 4316	Industrial and Product Safety	3		INEN/TECH Elective		3	
	INEN 4396	Automated System Engineering	3		INEN/TECH Elective		3	
	INEN 4300	Quality Improvement	3		ARTS 1303	Art History I	3	
		Hours	15			Hours	15	