

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

2026-2027

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. – Contact UAC at [advising@lamar.edu](mailto:advising@lamar.edu), 409-880-8822, [lamar.edu/findadvisor](http://lamar.edu/findadvisor)

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	3	___	ENGL 1301	Composition I	3	___
		MATH 2413 Calculus and Analytical Geometry I	4	___	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 University Physics II	4	___	CHEM 1312 and CHEM 1112 General Chemistry II and Gen Chem II Lab		4	___
		CVEN 2301 or MEEN 2301 Statics or Statics	3	___	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 Ethics	3	___	INEN 4320	Statistical Decision Making in Engineering	3	___
		INEN 4315 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 IE Systems Design	3	___	POLS 2302	Intro/American Government II	3	___
		INEN 4375 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	___	