

# 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		3	_____	<b>ENGL 1301</b>	Composition I	3	_____
	<b>MATH 2413</b>	Calculus and Analytical Geometry I	4	_____	<b>INEN 2360</b>	Computer Applications in IE	3	_____
	<b>CHEM 1311 and CHEM 1111</b>	General Chemistry I and Gen Chem I Lab	4	_____	<b>MATH 2414</b>	Calculus and Analytical Geometry II	4	_____
	<b>INEN 1101</b>	Introduction to Engineering	1	_____	<b>PHYS 2425</b>	University Physics I	4	_____
	<b>COMM 1315</b>	Public Speaking I	3	_____				_____
		Hours	15	_____		Hours	14	_____
SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	<b>PHYS 2426</b>	University Physics II	4	_____	<b>CHEM 1312 and CHEM 1112</b>	General Chemistry II and Gen Chem II Lab	4	_____
	<b>CVEN 2301 or MEEN 2301</b>	Statics or Statics	3	_____	<b>INEN 3380</b>	Work Design	3	_____
	<b>MATH 2318</b>	Linear Algebra	3	_____	<b>ELEN 3310</b>	Fundamentals of Electrical Engineering	3	_____
	<b>INEN 2373</b>	Engineering Economics	3	_____	<b>MATH 3301</b>	Ordinary Differential Equations	3	_____
	<b>INEN 3322</b>	Eng Materials and Manufacturing Processes	3	_____	<b>POLS 2301</b>	Intro to American Government I	3	_____
		Hours	16	_____		Hours	16	_____
THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	<b>PHIL 2306</b>	Ethics	3	_____	<b>INEN 4320</b>	Statistical Decision Making in Engineering	3	_____
	<b>INEN 4315</b>	Industrial Management	3	_____	<b>INEN 4345</b>	Computer Integrated Manufacturing	3	_____
	<b>INEN 4350</b>	Production and Inventory Control	3	_____	<b>INEN 4370</b>	Operations Research	3	_____
	<b>INEN 3320</b>	Probability and Statistics for Engineering	3	_____	<b>HIST 1302</b>	U.S. History II Since 1877	3	_____
	<b>INEN/TECH Elective</b>		3	_____	<b>INEN/TECH Elective</b>		3	_____
		Hours	15	_____		Hours	15	_____
FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	<b>INEN 4323</b>	IE Systems Design	3	_____	<b>POLS 2302</b>	Intro/American Government II	3	_____
	<b>INEN 4375</b>	Simulation of Industrial Systems	3	_____	<b>INEN 4385</b>	IE Design	3	_____
	<b>INEN 4316</b>	Industrial and Product Safety	3	_____	<b>INEN/TECH Elective</b>		3	_____
	<b>INEN 4396</b>	Automated System Engineering	3	_____	<b>INEN/TECH Elective</b>		3	_____
	<b>INEN 4300</b>	Quality Improvement	3	_____	<b>ARTS 1303</b>	Art History I	3	_____
		Hours	15	_____		Hours	15	_____