

COLLEGE OF ENGINEERING

Bachelor of Science, Industrial Engineering

Four-Year Academic Map 2023-2024

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total
	ENGI 1100	Introduction to Engineering	1	ENGI 1331	Computing for Engineers	3	
	CHEM 1311	Fundamentals of Chemistry*	3	MATH 2414	Calculus II*	4	
	CHEM 1111	Fundamentals of Chemistry Lab	1	PHYS 2325	University Physics I*	3	
	ENGL 1301	First Year Writing I*	3	ENGL 1302	First Year Writing II*	3	
	MATH 2413	Calculus I*	4	HIST 1301	The United States To 1877*	3	
	CORE	Social & Behavioral Sciences*	3				
	Semester Hours	15	Semester Hours	16		31	

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	INDE 2331	Computer Applications for Industrial Engineering	3	INDE 3333	Engineering Economy I	3	
	INDE 3330	Financial & Cost Management	3	MECE 3400	Introduction to Mechanics	4	
	INDE 2333	Engineering Statistics I	3	GOVT 2306	U.S. & TX Constitution & Politics*	3	
	MATH 2415	Calculus III	4	ENGI 2304	Technical Communications*	3	
	PHYS 2326	University Physics II	3	MATH 3321	Engineering Mathematics	3	
	Semester Hours	16	Semester Hours	16		32	

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total
	GOVT 2305	U.S. Government*	3	INDE 4364	Big Data and Analytics	3	
	INDE 3382	Stochastic Models	3	INDE 3381	Linear Optimization	3	
	INDE 3364	Engineering Statistics II	3	INDE 4331	Analysis of Industrial Activities	3	
	INDE 3310	Quality Control and Improvement	3	INDE 4369	Facility Planning and Design	3	
	INDE 3432	Manufacturing Processes	4	INDE 3362	CAD/CAM	3	
	Semester Hours	16	Semester Hours	15		31	

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total
	INDE 4111	Industrial Engineering Seminar	3	INDE 4315	Supply Chain Management	3	
	INDE 4320	Computer-Integrated Mfg.	1	INDE 4334	Engineering Systems Design	3	
	INDE 4370	Discrete Event Simulation	3	INDE 4337	Human Factors & Ergonomics	3	
	Tech Elective	Technical Elective	3	INDE 4372	Operation Control	3	
	CORE	Language, Philosophy & Culture*	3	CORE	Creative Arts*	3	
	HIST 1302	The United States Since 1877	3				
	Semester Hours	16	Semester Hours	15		31	
						125	

*State of Texas Core Curriculum

Students should meet with their academic advisor to formulate their own plan.