



TRANSFER PATHWAY: LEE COLLEGE AS EGR3 TO INDUSTRIAL ENGINEERING

First Year - Freshman								
Fall Semester				Spring Semester				
Lee College	Lamar	Course Name	Hrs	Lee College	Lamar	Course Name	Hrs	
EDUC 1200		Learning Frameworks	2	ENGR 2304	INEN 2360	Programming for Engineering	3	
ENGR 1201	INEN 1101	Introduction to Engineering	2	MATH 2414	MATH 2414	Calculus II with Analytic Geometry	4	
ENGL 1301		English Composition I	3	SPCH 1315	COMM 1315	Principles of Public Speaking	3	
MATH 2413	MATH 2413	Calculus I with Analytic Geometry	4	PHYS 2425	PHYS 2425	University Physics I	4	
CHEM 1411	CHEM 1311/1111	General Chemistry I (with lab)	4	CHEM 1412	CHEM 1312/1112	General Chemistry II (with lab)	4	
Total			15				18	
Summer Semester								
Lee College	Lamar	Course Name	Hrs					
ARTS		Creative Arts Core	3					
Total								3
Second Year - Sophomore								
Fall Semester				Spring Semester				
Lee College	Lamar	Course Name	Hrs	Lee College	Lamar	Course Name	Hrs	
MATH 2415	MATH 2415	Calculus III with Analytic Geometry	4	MATH 2320	MATH 2320	Differential Equations	3	
PHYS 2426	PHYS 2426	University Physics II	4	ENGR 2308	INEN 2373	Engineering Economics	3	
ENGR 2401	MEEN 2301	Engineering Statics	4	MATH 2318	MATH 2318	Linear Algebra	3	
HIST 1301	HIST 1301	History of the United States to 1877	3	HIST 1302	HIST 1302	History of the United States since 1877	3	
GOVT 2305	POLS 2301	Federal Government	3	GOVT 2306	POLS 2302	Texas Government	3	
Total			18				15	
Third Year - Junior								
Fall Semester				Spring Semester				
Lamar		Course Name	Hrs	Lamar		Course Name	Hrs	
INEN 3380		Work Design	3	INEN 4320		Statistical Decision Making in Engineering	3	
INEN 3322		Engineering Materials and Manufacturing Processes	3	INEN 4345		Computer Integrated Manufacturing	3	
ELEN 3310		Fundamentals of Electrical Engineering	3	INEN 4370		Operations Research	3	
INEN 4350		Production & Inventory Control	3	INEN 4315		Industrial Management	3	
INEN 3320		Probability and Statistics for Engineering	3	INEN/TECH		Elective ¹	3	
Total			15	Total			15	
Fourth Year - Senior								
Fall Semester				Spring Semester				
Lamar		Course Name	Hrs	Lamar		Course Name	Hrs	
INEN 4323		ID Systems Design	3	INEN 4385		IE Design	3	
INEN 4375		Simulation of Industrial Systems	3	INEN 4316		Industrial and Product Safety	3	
INEN 4396		Automated System Engineering	3	INEN 4300		Quality Improvement	3	
PHIL 2306		Ethics	3	INEN/TECH		Elective ¹	3	
INEN/TECH		Elective ¹	3	INEN/TECH		Elective ¹	3	
Total			15	Total			15	

Notes:

Calculus III is required for the Lee College Engineering degree, but not the Lamar University Industrial Engineering degree.

¹ At least two electives must be upper-level. Must be INEN or approved by advisor.