



# Transfer Degree Map: LSC to LU Engineering Bachelor of Science in Industrial Engineering



## 4 – Year Suggested Academic Plan for Transfer

First Year - Freshman							
Fall Semester				Spring Semester			
LSC	University	Course Name	Hrs	LSC	University	Course Name	Hrs
EDUC 1300		Learning Framework: 1 <sup>st</sup> Year Exp.	3	ENGR 2304		Programming for Engrs	3
ENGL 1301		Composition and Rhetoric I	3	CHEM 1412 (2)		General Chemistry II	4
MATH 2413		Calculus I	4	MATH 2414		Calculus II	4
CHEM 1411		General Chemistry I	4	PHYS 2425		Mechanics and Heat	4
ENGR 1201		Intro to Engineering	2	HIST 1301		US History to 1877	3
<b>Total</b>			<b>16</b>	<b>Total</b>			<b>18</b>

Second Year - Sophomore							
Fall Semester				Spring Semester			
LSC	University	Course Name	Hrs	LSC	University	Course Name	Hrs
HIST 1302		US History from 1877	3	ENGR 2405		Electrical Circuits I	4
GOVT 2305		Federal Government	3	MATH 2320		Differential Equations	3
ENGR 2301		Engineering Mechanics: Statics	3	ENGR 2302		Engineering Mechanics: Dynamics	3
MATH 2318		Linear Algebra	3	ENGR 2308		Engineering Economics	3
PHYS 2426		Electricity, Magnetism, and Light	4	GOVT 2306		Texas Government	3
<b>Total</b>			<b>16</b>	<b>Total</b>			<b>16</b>

Third Year - Junior							
Fall Semester				Spring Semester			
LSC	University	Course Name	Hrs	LSC	University	Course Name	Hrs
	COMM 1315 (1)	Public Speaking	3		INEN 4230 (6)	Stat Decision Making Engr	3
	INEN 3320 (6)	Probability & Stat for Engr	3		INEN 4345	Computer Int. Manufacturing	3
	INEN 4315	Industrial Management	3		INEN 4370	Operations Research	3
	INEN 4350	Production & Inventory Control	3		INEN 4300	Quality Improvement	3
	INEN 3322	Engr. Matls. & Processes	3		INEN 3380	Work Design	3
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>15</b>

Fourth Year - Senior							
Fall Semester				Spring Semester			
LSC	University	Course Name	Hrs	LSC	University	Course Name	Hrs
	INEN 4323 (5)	IE Systems Design	3		INEN 4385	IE Design	3
	INEN 4375	Simulation of IE Sys.	3		Elective (4) (7)	Approved Elective	3
	INEN 4316	Industrial and Product Safety	3		Elective (4) (7)	Approved Elective	3
	Elective (4)	Approved Elective	3		Creative Arts (3)	Chose from options below (core)	3
Elective (4)	Elective (4)	Approved Elective	3		PHIL 2306	Ethics	3
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>15</b>

### Notes/Comments:

All STEM courses require a grade of "C" or better to satisfy degree plan/prerequisite requirements.

- (1) or COMM 1315
- (2) CHEM 1412 or another science elective approved by the INEN Chair
- (3) Creative Arts electives are: ARTS 1301, ARTS 1303, MUSI 1306 or DANC 2303
- (4) Must be INEN or see (7) or approved by BSIE Program Chair
- (5) In addition to the prerequisites, students must be admitted into the BSIE Program and complete all courses through the junior year
- (6) Must be advanced to BSIE status
- (7) BSIE/MBA 5-year Program Electives: BULW 3310, ACCT 5315, ECON 5300, BCOM 3350 (Only if there is an English Proficiency Issue)