



# Transfer Degree Map: Associate of Science Industrial Engineering FOS to Lamar University Bachelor of Science in Industrial Engineering



## 4 – Year Suggested Academic Plan for Transfer, Effective Spring 2023

It is important to satisfy all prerequisite and/or corequisite requirements prior to registering for certain courses.

First Year - Freshman							
Fall Semester				Spring Semester			
LSC	University	Course Name	Hrs	LSC	University	Course Name	Hrs
EDUC 1300 or HIST 1301 (1)	HIST option	Learning Framework: 1 <sup>st</sup> Year Exp. Or US History I	3	GOVT 2305	POLS 2301	Federal Government	3
MATH 2413 (2)	MATH 2413	Calculus I	4	MATH 2414	MATH 2414	Calculus II	4
ENGR 1201	ELEN 1100	Intro Engineering	2	PHYS 2425	PHYS 2425	Mechanics & Heat	4
CHEM 1411	CHEM 1311/1111	General Chemistry I	4	HIST 1302	HIST 1302	US History II	3
ENGL 1301	ENGL 1301	Composition & Rhetoric I	3	ENGR 1304	INEN/Tech El.	Engineering Graphics	3
<b>Total</b>			<b>16</b>	<b>Total</b>			<b>17</b>
Second Year - Sophomore							
Fall Semester				Spring Semester			
PHYS 2426	PHYS 2426	Electricity, Magnetism & Light	4	MATH 2320	MATH 3301	Differential Equations	3
ENGR 2304	ELEN 2360	Programming for Engineers	3	ENGR 2308	INEN 2373	Engineering Economics	3
MATH 2415	INEN/Tech El	Calculus III	4	ENGR 2305	ELEN 2411	Electrical Circuits I	3
ENGR 2301	CVEN 2301	Engineering Mechanics	3	ENGR 2105	ELEN 2411	Electrical Circuits I	1
				GOVT 2306	POLS 2302	Texas Government	3
<b>Total</b>			<b>14</b>	<b>Total</b>			<b>13</b>
Summer Session I in preparation for transfer (not required for graduation at LSC)				Summer Session II at Lamar University			
CHEM 1412	CHEM 1312/1112	General Chemistry II	4	MATH 2318	MATH 2318	Linear Algebra	3
<b>Total</b>			<b>4</b>	<b>Total</b>			<b>3</b>
Third Year - Junior							
Fall Semester				Spring Semester			
Lamar	Course Name		Hrs	Lamar	Course Name		Hrs
COMM 1315	Public Speaking		3	INEN 4320	Stat Decision Making Engr		3
INEN 3320	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			
INEN 4323 (5)	IE Systems Design		3	INEN 4385	IE Design		3
INEN 4375	Simulation of IE Sys.		3	Elective (3) (4)	Approved Elective		3
INEN 4316	Industrial and Product Safety		3	Elective (3) (4)	Approved Elective		3
INEN 4396	Automated System Engineering		3	Creative Arts	Choose from core options		3
				PHIL 2306/1370	Intro to Ethics / Philosophy of Knowledge		3
<b>Total</b>			<b>12</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) EDUC 1300 is only required for First Time in College (FTIC) students at LSC. If not FTIC, student should take HIST 1301 - United States History I. All students are required to complete HIST requirement.
- (2) Students may be placed in MATH 2413 through placement by testing or by completing the appropriate MATH prerequisites. See advisor for options
- (3) Must be INEN or see (4) or approved by BSIE Program Chair
- (4) BSIE/MBA 5-year Program Electives: BULW 3310, ACCT 5315, ECON 5300, BCOM 3350 (Only if there is an English Proficiency Issue)
- (5) In addition to the prerequisites, students must be admitted into the BSIE Program and complete all courses through the junior year

## Articulation Agreement Information – Standard and Program to Program (P2P)

### Transfer of Credit & Student Benefits

- Transfer Academic Excellence Scholarship and Phi Theta Kappa (PTK) Scholarship available to full-time students:
  - Please refer to <https://beacardinal.lamar.edu/paying-for-college/transfer-scholarships.html> for Eligibility Requirements and Renewal Requirements

<b>Transfer Academic Excellence Scholarship</b>		
<b>Transferrable GPA</b>	<b>Scholarship Amount/Year</b>	<b>Renewable?</b>
3.5-4.0	\$2,000	Yes
3.0-3.49	\$1,500	Yes
<b>Phi Theta Kappa (PTK) Scholarship</b>		
3.0-4.0	\$1,000	Yes

- Reverse transfer
- Students jointly admitted to Lamar University will receive same benefits as student of the institution
- LSC Honors students will receive consideration for acceptance to Lamar's Honors College

### Optional Partnership

### **Standard Agreement & P2P Agreement**

(Courses in AS Industrial Engineering to Bachelor of Science in Industrial Engineering)

### Program Admission Requirements

- LSC students entering BS in Electrical Engineering program at Lamar University must have a 2.0 GPA.

### Program Specific Requirements

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



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