



**LAMAR UNIVERSITY - BEAUMONT**  
**B.S. in INDUSTRIAL ENGINEERING (121 Hours)**  
**PROGRAM OF STUDY**



This form applies to students all students entering Lamar University after May, 2020 and is an option for current students in sp. 20  
 Supercedes all previous catalogs

Name: \_\_\_\_\_  
 LUID: \_\_\_\_\_  
 Advisor: \_\_\_\_\_

Street: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**FALL**

**SPRING**

**FIRST YEAR**

	CR			
INEN 1101 Intro to Engineering	1			
CHEM 1311 Chemistry I	3			
CHEM 1111 Chemistry I Lab	1			
ENGL 1301 English Composition 1	3			
MATH 2413 Calculus & Analytic Geo. I	4			
COMM 1315 Public Speaking (5)	3			
<b>TOTAL</b>	<b>15</b>			

	CR	CR	GRADE
INEN 2360 Comp. Appl. IE	3		
CHEM 1312 - Lab Science Elective(2)	3		
CHEM 1112 - Lab Sc Elective Lab (2)	1		
MATH 2414 Calculus & Analytic Geo. II	4		
PHYS 2425 Physics I	4		
<b>TOTAL</b>	<b>15</b>		

**SECOND YEAR**

INEN 2373 Engineering Economics (3)	3			
INEN 3322 Engr. Matls. & Procs.	3			
CVEN / MEEN 2301 Statics	3			
MATH 2318 Linear Algebra	3			
PHYS 2426 Physics II	4			
<b>TOTAL</b>	<b>16</b>			

INEN 3380 Work Design	3			
ELEN 3310 Fundamentals of EE	3			
MATH 3301 Diff. Eq.	3			
Creative Arts Elective (6)	3			
PHIL 2306 Ethics (1)	3			
<b>TOTAL</b>	<b>15</b>			

**THIRD YEAR**

INEN 3320 Probability & Stat for Engr	3			
INEN 4315 Industrial Management	3			
INEN 4350 Production & Inventory Ctl.	3			
Approved Elective (4) (9)	3			
HIST 1301 History I	3			
<b>TOTAL</b>	<b>15</b>			

INEN 4320 Stat Dec Making Engr	3			
INEN 4345 Comp. Int. Manufacturing	3			
INEN 4370 Operations Research	3			
INEN 4300 Quality Improvement	3			
HIST 1302 History II	3			
<b>TOTAL</b>	<b>15</b>			

**FOURTH YEAR**

INEN 4323 IE Systems Design (7)	3			
INEN 4375 Simulation of IE Sys.	3			
INEN 4316 Industrial and Product Safety	3			
INEN 4396 Automated System Engineering	3			
POLS 2301 American Gov't. I	3			
<b>TOTAL</b>	<b>15</b>			

INEN 4385 IE Design	3			
Approved Elective (4)	3			
Approved Elective (4)	3			
Approved Elective (4)	3			
POLS 2302 American Gov't. II	3			
<b>TOTAL</b>	<b>15</b>			

**NOTES:**

- All STEM courses require a grade of 'C' or better to satisfy degree plan/prerequisite requirements  
 (1) or PHIL 1370 Philosophy of Knowledge  
 (2) CHEM 1312 + 1112 or another course approved by the INEN Chair  
 (3) Social and Behavioral Science Elective is INEN 2373 Engineering Economics  
 (4) Must be INEN or approved by BSIE Program Chair. **BSIE/MBA 5-year students take ACCT 5315. Automation and Robotics students should take ELEN 2330 and INEN 4358/5358 Intro Robotics or INEN 4301/5301 ST: Applied Programming.** Up to 2 graduate level courses can be taken as electives and applied to both undergraduate and graduate degree with department permission.

(5) Or COMM 1321, DSDE 1371 (ASL 1), FREN 1311, SPAN 1311

(6) Creative Arts Electives are: ARTS 1301, ARTS 1303, DANC 2304, MUSI 1306, COMM 1375, PHIL 1330

(7) In addition to the prerequisites, students must be admitted into the BSIE Program and completed all courses through the junior year