

LAMAR UNIVERSITY

B. S. in CHEMICAL ENGINEERING (129 Hours)

This form applies to students entering Lamar University after September 2014

Name: \_\_\_\_\_  
 LU#: \_\_\_\_\_  
 Advisor: \_\_\_\_\_

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

FALL

SPRING

FIRST YEAR

	CR	GRADE			
ENGL 1301 English Composition I	3				
MATH 2413 Calculus & Analytic Geo. I	4				
CHEM 1311 - Chemistry I	3				
CHEM 1111 - Chemistry I Lab	1				
CHEN 1101 - Intro to Chemical Engineering	1				
Fine Arts Elective <sup>6</sup>	3				

Total 15

	CR	GRADE			
MATH 2414 Calculus & Analytic Geo. II	4				
CHEM 1312 Chemistry II	3				
CHEM 1112 Chemistry II	1				
PHYS 2425 Physics I	4				
PHIL 2306 Ethics <sup>3</sup>	3				

Programming<sup>8</sup> \_\_\_\_\_ Total 15

SECOND YEAR

PHYS 2426 Physics II	4				
INEN 2373 Engineering Economics <sup>7</sup>	3				
CVEN 2301 Statics	3				
CHEN 2374 Thermodynamics I	3				
CHEN 2140 Undergrad Seminar	1				
MATH 3328 Linear Algebra	3				

Total 17

CHEM 3401 Quantitative Analysis	4				
CHEN 3340 Process Analysis	3				
ELEN 2310 Fund. of Electrical Engineering	3				
MATH 3301 Ordinary Diff. Equations	3				
Communication Elective <sup>4</sup>	3				
CHEN 2100 CAMS	1				

Total 17

THIRD YEAR

MATH 3370 Intro to Theory of Statistical Inference	3				
**CHEN 3330 Thermodynamics II	3				
**CHEN/MEEN 3311 Momentum Transfer	3				
POLS 2301 American Gov't. I	3				
CHEM 3311 Organic I	3				
CHEM 3111 Organic I Lab	1				

Total 16

**CHEN 3320 Heat Transfer	3				
**CHEN 4410 Reaction Kinetics	4				
POLS 2302 American Gov't. II	3				
CHEM 4312 Physical Chemistry II	3				
CHEM 3312 Organic II	3				
CHEM 3112 Organic II Lab	1				

Total 17

FOURTH YEAR

CHEN 4331 Process Control I <sup>2</sup>	3				
CHEN 4420 Mass Transfer	4				
CHEN 4310 Lab I	3				
CHEN 4360 Design I	3				
CHEM Elective <sup>1</sup>	3				

Total 16

CHEN 4332 Process Control II	3				
CHEN 4150 LAB	1				
CHEN 4340 Plant Design II	3				
CHEN 4350 Advanced Analysis	3				
History 2 <sup>5</sup>	3				
Creative Arts Elective <sup>6</sup>	3				

Total 16

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

(1) Must be approved by department chair.

(2) Prerequisite for CHEN 4150 (Process Control Lab)

(3) Or PHIL 1370 Philosophy of Knowledge

(4) Communication electives are: COMM 1315, COMM 1321, DSDE 1371, FREN 1311 or SPAN 1311

(5) Two semesters of US or Texas history from: HIST 1301, 1302, or 2301

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

(7) Social and Behavioral Sciences elective is INEN 2373 Engineering Economics

(8) A Programming Course is needed before taking the CHEN 2374 Thermodynamics I class (Equivalent High School course could be accepted)

+ Completion of CHEN & CHEM courses required before registration for fourth-year CHEN courses.

\*\* Courses are also offered during the summer session.