

CHEMICAL ENGINEERING

CODE: 4170 (140701-01)

2013-2015 Catalog

Bachelor of Science In Chemical Engineering

Students with Math ACT sub-score of 28 or above, and with at least 8 weeks of trigonometry in high school may register for Mathematics 270, Calculus I, upon entry. Students with ACT sub-scores of 26-27 may take the advanced placement test given by the Math Department or Math 143, Precalculus Algebra and Trigonometry. Those who do not meet these qualifications and have an ACT sub-score in Math of at least 23 must take Math 109, Precalculus Algebra, and those with 24-25 may take Math 109 and Math110, Trigonometry: Fundamentals, simultaneously. Students requiring precalculus courses are advised to complete these courses in the summer semester prior to the freshman year.

First Semester		Credit	Second Semester		Credit		
Freshman Year							
UNIV	100	First Yr Seminar: Cajun Connection.....	2	UNIV	200	Information Literacy	2
CHEM	107	General Chemistry I.....	3	CHEM	108	General Chemistry II.....	3
ENGL	101	Intro to Academic Writing.....	3	CHEM	115	Gen Chemistry Lab	2
MATH	270	Calculus I.....	4	ENGL	102	Writing & Research About Culture.....	3
Elective		(BIOL) ^{1,2}	3	MATH	301	Calculus II	4
				PHYS	201	General Physics I.....	4
			15				18
Sophomore Year							
CHEE	201	Chem Engr Calc.....	4	CHEM	231	Organic Chemistry I.....	3
CHEM	221	Analytical Chemistry ²	3	CHEE	210	Engr Analysis	2
ENGR	218	Statics & Strength of Materials.....	3	ENGR	301	Thermodynamics.....	3
MATH	302	Calculus III	4	ENGR	305	Transport Phenomena.....	3
Elective		(LIT) ¹	3	MATH	350	Diff Equations.....	3
				Elective		(HIST) ¹	3
			17				17
Junior Year							
CHEE	317	Materials of Engr.....	3	CHEE	302	Transfer Operations.....	3
CHEM	233	Organic Chem Lab.....	1	CHEE	310	Chem Engr Thermo.....	3
CMCN	310	Public Speaking	3	CHEM	302	Physical Chemistry II	3
ECON	430	Ind Economics & Finance	3	CHEE	405	Process Heat Transfer.....	3
ENGR	201	Electrical Circuits ²	3	CHEE	427	Advanced Materials ²	3
Elective		(BHSC) ¹	3				
			16				15
Senior Year							
CHEE	400	Process Simulation.....	3	CHEE	404	Chem Engr Lab II.....	1
CHEE	401	Stage Operations Design.....	3	CHEE	408	Comp-Aided Proc Design	3
CHEE	403	Chem Engr Lab I	2	CHEE	413	Proc Control in CHEE.....	3
CHEE	407	Chem Engr Plant Design	3	CHEM	402	Chemistry of Materials ²	3
CHEE	420	Chem Reaction Engr.....	3	PHIL	316	Professional Ethics	3
Elective		(ARTS) ¹	3	Elective		(CHEE) ^{2,3}	3
			17				16

NOTE: ALL courses on curriculum require grade of C or better.

¹ Must be chosen from the College of Engineering approved list.

² Biology Emphasis: May be elected and requires the following course sequence:

BIOL 110 and 112 as Elective (BIOL)

BIOL111 & 113-substituted for ENGR 201

PHYS 215 and CHEM 234 substituted for CHEM 221

CHEM 232—Organic II as CHEE 427

CHEM 317-substituted for CHEM 402

³ Requires permission of Department