

CHEMICAL ENGINEERING

CODE: 4170 (140701-01)

2021-2022 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.....	3	CHEE	101 Intro to Chemical Engr.....	1
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
BIOL	110	Fundamentals of Biology I.....	3	MATH	301 Calculus II.....	4
		(OR)				
BIOL	121	Biological Prin & Issues I.....	3	PHYS	201 General Physics I.....	4
			<u>16</u>			<u>17</u>
Sophomore Year						
CHEE	201	Chem Engr Calc.....	4	CHEM	232 Organic Chemistry II.....	3
CHEM	231	Organic Chemistry I.....	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
			<u>17</u>	Elective	(HIST) ¹	<u>3</u>
						<u>17</u>
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.....	3	CHEE	307 Safety, Ethics, & Environmental Policy.....	2
Elective		(BHSC) ¹	3	Elective	(CHEE) ³	3
			<u>16</u>			<u>17</u>
Senior Year						
CHEE	400	Process Simulation.....	3	CHEE	404 Chem Engr Lab II.....	2
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	Elective	(SCI) ²	3
CHEE	420	Chem Reaction Engr.....	3	Elective	(CHEE) ³	3
Elective		(ARTS) ¹	3			
			<u>17</u>			<u>14</u>

All courses including CHEE, SCI, MATH, and any pre-requisite stipulations require grade of C or better.

¹ Must be chosen from the approved General Education Core Curriculum

² To be chosen from CHEM 221,251,280,301, 317, 402 or BIOL 111,122,216,217,220,221,261 or PHYS 202 or others in coordination with advisor and department head

³ Requires permission of Department