## Chemical Engineering Bachelor's Degree Suggested four-year program plan

YEAR 1	First seme CHEM 202 CHEM 203 MATH 221 RHET 105 ENG 100	Accelerated Chemistry Accelerated Chemistry Lab Calculus I Composition I Engineering Orientation General Education/Electives	≤ 16 credits 3 hours 2 hours 4 hours 4 hours 1 hours 1-3 hours	Second ser CHBE 121 CHEM 204 CHEM 205 MATH 231 PHYS 211 CS 101	ChBE Profession Accelerated Chemistry II Accelerated Chemistry II Lab Calculus II Intro to Phys - Mechanics Intro to Computing for Engineering	1 hour 3 hours 2 hours 3 hours 4 hours 3 hours
YEAR 2	First seme CHBE 221 CHEM 236 CHEM 237 MATH 241 PHYS 212	Principles of Chemical Engineering Fundamental Organic Chemistry Structure and Synthesis Calculus III Electricity & Magnetism	17 credits 3 hours 4 hours 2 hours 4 hours 4 hours	Second ser CHBE 321 CHBE 421 CHEM 436 MCB 450 MATH 285 MATH 415 MATH 257 PHYS 214	Chem. Engineering Thermodynamic Momentum and Heat Transfer Fundamental Organic Chemistry II Introductory Biochemistry* Introduction to Differential Equation Applied Linear Algebra Linear Algebra w/ Comp. Application Quantum Physics Technical/General Electives *For Biomolecular Engineering concentration	4 hours JOR 3 hours 3 hours 3 hours 3 hours 2 hours 3 hours
YEAR 3	First seme CHBE 321 CHBE 421 CHEM 442 CHEM 420 CHEM 315 IE 300	Thermodynamics Momentum and Heat Transfer Physical Chemistry Instrumental Characterization Instrumental Chemical Systems Lab Analysis of Data	15 credits 4 hours 4 hours 4 hours 2 hours 2 hours 3 hours	Second ser CHBE 422 CHBE 424	mester  Mass Transfer Operations Chemical Reaction Engineering Technical/General Electives	17 credits 4 hours 3 hours 10 hours
YEAR 4	First seme CHBE 430 CHBE 431 CHBE 440	Ster Unit Operations Laboratory Process Design Process Control and Dynamics Technical/General Electives	16 credits 4 hours 4 hours 3 hours 9 hours	Second ser CHBE 430 CHBE 431	mester Unit Operations Laboratory Process Design Technical/General Electives	16 credits 4 hours 4 hours 12 hours



