

## YEAR 1

### First semester - 16 hours

CHEM 202 Accelerated Chemistry I (3 Hrs)  
CHEM 203 Accelerated Chemistry Lab I (2 Hrs)  
MATH 221 Calculus I (4 Hrs)  
RHET 105 Composition (4 Hrs)  
ENG 100 Engineering Orientation (0 Hrs)  
Elective (3 Hrs)

### Second semester - 16 hours

ChBE 121 ChBE Profession (1 Hr)  
CHEM 204 Accelerated Chemistry II (3 Hrs)  
CHEM 205 Accelerated Chemistry Lab II (2 Hrs)  
MATH 231 Calculus II (3 Hrs)  
PHYS 211 Introduction to Classical Mechanics (4 Hrs)  
CS 101 Intro to Computing for Engineering & Science (3 Hrs)

## YEAR 2

### First semester - 17 hours

CHBE 221 Principles of Chemical Engineering (3 Hrs)  
CHEM 236 Fundamental Organic Chemistry I (4 Hrs)  
CHEM 237 Structure and Synthesis (2 Hrs)  
MATH 241 Calculus III (4 Hrs)  
PHYS 212 University Physics: Electricity & Magnetism (4 Hrs)

### Second semester - 18 hours

CHBE 321 Chemical Engineering Thermodynamics (4 Hrs)  
CHEM 436 Fundamental Organic Chemistry II (3 Hrs)  
MATH 285 Introduction to Differential Equations (3 Hrs)  
MATH 415 Applied Linear Algebra (3 Hrs)  
PHYS 214 University Physics: Quantum Physics (2 Hrs)  
Elective (3 Hrs)

## YEAR 3

### First semester - 15 hours

CHBE 421 Momentum and Heat Transfer (4 Hrs)  
CHEM 315 Instrumental Chemical Systems Lab (2 Hrs)  
CHEM 420 Instrumental Characterization (2 Hrs)  
CHEM 442 Physical Chemistry I (4 Hrs)  
IE 300 Analysis of Data (3 Hrs)

### Second semester - 17 hours

CHBE 422 Mass Transfer Operations (4 Hrs)  
CHBE 424 Chemical Reaction Engineering (3 Hrs)  
Electives (10 Hrs)

## YEAR 4

### First semester - 16 hours

CHBE 430 Unit Operations Laboratory (4 Hrs)  
CHBE 440 Process Control and Dynamics (3 Hrs)  
Electives (9 Hrs)

### Second semester - 14 hours

CHBE 431 Process Design (4 Hrs)  
Electives (10 Hrs)