Department of Chemical Engineering
Bachelor of Science in Engineering Curriculum & Flowchart of Prerequisites

Freshman Year
Fall Semester
17 credit hours
- MATH 141 (4) Calculus I
- ECHE 101 (3) Note 1 Introduction to Chemical Engineering
- PHYS 211/211L (3/1) Essentials of Physics I and Lab

Spring Semester
18 credit hours
- MATH 142 (4) Calculus II
- ECHE 200 (3) Chemical Process Principles
- PHYS 212/212L (3/1) Essentials of Physics II and Lab
- MATH 241 (3) Vector Calculus

Sophomore Year
Fall Semester
18 credit hours
- MATH 242 (3) Elementary Differential Equations
- ECHE 300 (3) Chemical Process Principles
- PHYS 213/213L (3/1) Essentials of Physics III and Lab
- MATH 243 (3) Vector Calculus

Spring Semester
15 credit hours
- MATH 244 (3) Vector Calculus
- ECHE 310 (3) Note 2 Introductory Chemical Engineering Thermodynamics
- MATH 245 (3) Elementary Differential Equations
- ECHE 311 (3) Chemical Engineering Fluid Mechanics

Junior Year
Fall Semester
18 credit hours
- MATH 246 (3) Elementary Differential Equations
- ECHE 310 (3) Note 2 Introductory Chemical Engineering Thermodynamics
- PHYS 214/214L (3/1) Essentials of Physics IV and Lab

Spring Semester
15 credit hours
- MATH 247 (3) Vector Calculus
- ECHE 320 (3) Chemical Engineering Thermodynamics
- MATH 248 (3) Elementary Differential Equations
- ECHE 420 (3) Chemical Engineering Kinetics

Senior Year
Fall Semester
15 credit hours
- MATH 249 (3) Vector Calculus
- ECHE 322 (3) [S] Mass Transfer
- MATH 250 (3) Vector Calculus
- ECHE 420 (3) [F] Chemical Engineering Kinetics

Spring Semester
15 credit hours
- MATH 251 (3) Vector Calculus
- ECHE 461 (3) [F] Chemical Engineering Laboratory II
- MATH 252 (3) Vector Calculus
- ECE 461 (3) [S] Process Safety, Health, and Loss Prevention

Total:
131 credit hours

Note 1. ECHE 101 or ENCP 101
Note 2. ECHE 310 or ENCP 290
Note 3. ECHE 320 or ENCP 360

Legend:
- Prerequisite
- Prerequisite or corequisite
- Grade of C or better
- UPPER DIVISION COURSES
- [F]: Offered Fall only
- [S]: Offered Spring only

Revision 16, 3/7/13