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Chemical Engineering, B.S.C.H.E.

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Degree Awarded: Bachelor of Science in Chemical Engineering
Total Credit Hours: 131
Career Opportunities: Oil and gas industry, refineries, petrochemical, pulp and paper, textile, plastic pharmaceutical cosmetic, or food processing industries

Note(s):

A grade of "C" or better is required in all courses in the College of Engineering and the College of Sciences that are used toward the degree.

A minimum of 2.0 cumulative average (major GPA) is required on all hours attempted in the major department (CHEE) and engineering courses that apply toward the degree.

Students are responsible for completing all course prerequisites before enrolling in a course.

General Education Core Curriculum

Core Curriculum

Freshman Year

Required Courses

- UNIV 100 – First Year Seminar **3 Credit(s)**
- CHEE 101 – Introduction to Chemical Engineering **1 Credit(s)**
- CHEM 107 – General Chemistry I **3 Credit(s)**
- CHEM 108 – General Chemistry II **3 Credit(s)**
- CHEM 115 – General Chemistry Laboratory **2 Credit(s)**
- ENGL 101 – Introduction to Academic Writing **3 Credit(s)**
- ENGL 102 – Writing and Research About Culture **3 Credit(s)**
- MATH 270 – Calculus I **4 Credit(s)**
- MATH 301 – Calculus II **4 Credit(s)**
- PHYS 201 – General Physics I **4 Credit(s)**

- BIOL 110 – Fundamentals of Biology I **3 Credit(s)**
  or
- BIOL 121 – Biological Principles and Issues I **3 Credit(s)**

Total: 33 Credits

Sophomore Year

Required Courses

- CHEE 201 - Chemical Engineering Calculations **4 Credit(s)**
- CHEM 231 - Organic Chemistry I **3 Credit(s)**
- CHEM 232 - Organic Chemistry II **3 Credit(s)**
- CHEE 210 - Engineering Analysis **2 Credit(s)**
- ENGR 218 - Statics and Strength of Materials **3 Credit(s)**
- ENGR 301 - Thermodynamics **3 Credit(s)**
- ENGR 305 - Transport Phenomena **3 Credit(s)**
- MATH 302 - Calculus III **4 Credit(s)**
- MATH 350 - Differential Equations **3 Credit(s)**

Electives

English Literature (3 Credits)

Choose from the General Education Core list of Literature courses in consultation with advisor.

History (3 Credits)

Choosefrom the General Education Core list of History courses in consultation with advisor.

Total: 34 Credits

Junior Year

Required Courses

- CHEE 302 - Transfer Operations **3 Credit(s)**
- CHEE 307 - Safety, Ethics, and Environmental Policy **2 Credit(s)**
- CHEE 310 - Chemical Engineering Thermodynamics **3 Credit(s)**
- CHEE 317 - Materials of Engineering **3 Credit(s)**
- CHEE 405G - Process Heat Transfer **3 Credit(s)**
- CHEM 233 - Organic Chemistry Laboratory I **1 Credit(s)**
- CHEM 302 - Physical Chemistry II **3 Credit(s)**
- CMCN 310 - Public Speaking **3 Credit(s)**
- ECON 430G - Industrial Economics and Finance **3 Credit(s)**
- ENGR 201 - Electrical Circuits **3 Credit(s)**

Elective

Chemical Engineering (3 Credits)

Requires permission of department. Choose in consultation with advisor.

Social/Behavioral Sciences (3 Credits)

Choose from the General Education Core list of Social/Behavioral Science courses in consultation with advisor. Three hours must be at the 200-level or above.

Total: 31 Credits

Senior Year

Required Courses

- CHEE 400G - Process Simulation **3 Credit(s)**
- CHEE 401 - Stage Operations Design **3 Credit(s)**
- CHEE 403 - Chemical Engineering Laboratory I **2 Credit(s)**
- CHEE 404 - Chemical Engineering Laboratory II **2 Credit(s)**
- CHEE 407 - Chemical Engineering Plant Design **3 Credit(s)**
- CHEE 408G - Computer-Aided Process Design **3 Credit(s)**

- CHEE 413G - Process Control in Chemical Engineering **3 Credit(s)**
- CHEE 420G - Chemical Reaction Engineering **3 Credit(s)**

Electives

Chemical Engineering (3 Credits)

Requires permission of department. Choose in consultation with advisor.

Visual Arts (3 Credits)

Choose in consultation with advisor.

Natural Sciences (3 Credits)

Choose from:

- BIOL 111 - Fundamentals of Biology II **3 Credit(s)**
- BIOL 122 - Biological Principles and Issues II **3 Credit(s)**
- BIOL 216 - Applied Anatomy and Physiology for Kinesiology **3 Credit(s)**
- BIOL 217 - Applied Anatomy and Physiology Laboratory for Kinesiology **1 Credit(s)**
- BIOL 220 - Survey of Human Anatomy and Physiology **3 Credit(s)**
- BIOL 221 - Survey of Human Anatomy and Physiology Laboratory **1 Credit(s)**
- BIOL 261 - General Microbiology **3 Credit(s)**
- PHYS 202 - General Physics II **4 Credit(s)**
- CHEM 221 - Analytical Chemistry **3 Credit(s)**
- CHEM 251 - Descriptive Inorganic Chemistry **3 Credit(s)**
- CHEM 280 - Introduction to Biochemistry **3 Credit(s)**
- CHEM 301 - Physical Chemistry I **3 Credit(s)**
- CHEM 317 - Biochemistry I **3 Credit(s)**
- CHEM 402G - Chemistry of Materials **3 Credit(s)**

Total: 33 Credits

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