Chemical Engineering (CH E) Degree – B 163, Pre-medical/Biomedical Engineering Option (135 hours)
School of Chemical, Biological & Materials Engineering

**Freshman 1st Semester**
- MATH 1823, Calculus & Analytical Geometry I
- MATH 2423, Calculus & Analytical Geometry II
- PHYS 2514, General Physics for Engr. & Sci. Majors
- ENGR 1411, Freshman Engineering Experience
- HIST 1483 or HIST 1493, US History
- CHEM 1315, General Chemistry
- ENGL 1113, Principles of English Comp. I

**Freshman 2nd Semester**
- MATH 2433, Calculus & Analytical Geometry III
- PHIS 2524, General Physics for Engr. & Sci. Majors II
- CH E 2002, Intro. to Chemical Engineering Computing
- CHEM 1415, General Chemistry or CHEM 1425
- ENGR 1213, Prin. of Engl. Comp. II or EXPO 1213 Expo. Writing
- Approved Elective, Core IV: Artistic Forms

**Sophomore 1st Semester**
- MATH 2433, Calculus & Analytical Geometry III
- CH E 2033, Chemical Engineering Fundamentals
- Approved Elective, Core IV: Artistic Forms

**Sophomore 2nd Semester**
- MATH 2443, Calculus & Analytical Geometry IV
- CH E 3113, Introduction to Chemical Engineering
- Approved Elective, Core IV: Artistic Forms

**Junior 1st Semester**
- ZOO 1114, Introductory Zoology
- MATH 3113, Intro. to Ordinary & Differential Equations
- CHEM 3653, Intro. to Biochemistry OR Chemical Engineering Technical Elective I
- CHEM 3421, Physical Chemistry Lab
- CH E 3123, Momentum, Heat & Mass Transfer II
- CH E 3473, Chemical Engineering Thermodynamics
- CHEM 3423, Physical Chemistry I
- CHEM 3423, Physical Chemistry I
- Engle 3153, Technical Writing
- Approved Elective, Core IV: Western Civ. & Culture

**Junior 2nd Semester**
- ZOO 1121, Introductory Zoology Lab
- CH E 3472, Chemical Engineering Thermo.
- CH E 3432, Unit Operations
- CH E 4473, Kinetics
- CHEM 3423, Physical Chemistry I
- CHEM 3423, Physical Chemistry I

**Senior 1st Semester**
- ZOO 3103, Principles of Zoology
- CH E 3333, Separation Processes
- CH E 4153, Process Dynamics & Control
- CH E 4253, Chemical Engineering Design I
- CH E 4262, Chem. Engr. Design Lab
- CHEM 3653, Advanced Process Design
- Approved Elective, Core IV: Non-Western Culture

**Senior 2nd Semester**
- ZOO 3101, Principles of Zoology Lab
- CH E 4273, Chemical Engineering Technical Elective II
- CH E 4273, Chemical Engineering Technical Elective II
- CHEM 3653, Advanced Process Design
- Approved Elective, Core IV: Non-Western Culture

Notes: Arrows indicate prerequisite. A “C” under the arrow indicates it is a corequisite.

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