Chemical Engineering (CHE) Degree – B161, Biotechnology Option (128 hours)
School of Chemical, Biological & Materials Engineering – 2015/2016

Freshman 1st Semester
- MATH 1914 Differential & Integral Calculus I (Core 1)
- CHEM 1315 General Chemistry
- ENGL 1113 Principles of English Comp. I
- PHYS 2514 General Physics for Engr. & Sci. Majors
- ENGR 1411 Freshman Engineering Experience

Freshman 2nd Semester
- MATH 2924 Differential & Integral Calculus II
- CHEM 1415 General Chemistry or CHEM 1425
- ENGL 1213 Prin. of Eng. Comp. II or EXPO 1213 Exposition Writing
- HIST 1483 or HIST 1493, US History

Sophomore 1st Semester
- MATH 2934 Differential & Integral Calculus III
- CHEM 3053 Organic Chemistry I: Biol. Emphasis
- CHEM 3152 Organic Chemistry Lab: Biol. Emphasis
- CHEM 3421 Physical Chemistry Lab
- CHEM 3423 Physical Chemistry I

Sophomore 2nd Semester
- MATH 3113, Intro. to Ordinary & Differential Equations
- CHEM 3133, Chemical Engineering Thermodynamics
- CHEM 3123, Chemical Engineering Thermo.
- CHEM 3473, Chemical Engineering Thermo.
- CHEM 3423, Physical Chemistry I

Junior 1st Semester
- CHE 2002, Intro. to Chemical Engineering Computing
- CHE 2033, Chemical Engineering Fundamentals
- CHE 3113, Momentum, Heat & Mass Transfer I
- CHEM 3423, Physical Chemistry I

Junior 2nd Semester
- MATH 3113, Intro. to Ordinary & Differential Equations
- CHE 3123, Momentum, Heat & Mass Transfer II
- CHE 3473, Chemical Engineering Thermo.
- CHEM 3423, Physical Chemistry I
- CHEM 3423, Physical Chemistry I

Senior 1st Semester
- CHE 5243, Biochemical Engr. – Offered alt. Spring only.
- MBIO 2815, or MBIO 3813 AND MBIO 3812
- CHE 3313 Structure & Properties of Materials (was 2313)
- CH E 3333 Separation Processes
- CH E 4473, Kinetics

Senior 2nd Semester
- ENGR 2431 Electrical Circuits
- ENGR 3431 Electromech. Systems
- CHE 4153, Process Dynamics & Control
- CH E 4253 Process Design & Safety (was Chemical Eng. Design I)
- CH E 4273 Advanced Process Design
- CHEM 3653, Intro. to Biochemical Methods
- CHEM 3753, Intro. To Biochemical Methods

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

This flowchart is NOT an official notice of degree requirements and/or prerequisites. Please use as a supplemental advising guide to be used with the OFFICIAL University of Oklahoma degree check sheet http://checksheets.ou.edu/coeindx.htm. Refer to WSSC Advisor for additional questions (405) 325-4969.