Bachelor of Science in Chemical Engineering (CH E – B161 Biotechnology)
Summer 2017 through Spring 2018 – Total Credit Hours: 125

This flowchart is not an official check sheet of degree requirements. It is meant to be used as a supplemental visual guide to be used along with the official University of Oklahoma degree check sheet.

FRESHMAN
Fall 16 Hours
MATH 1914 Calculus I
ENGR 1411 or 3511 Freshman / Transfer Engineering Experience
HIST 1483 or 1493 U.S. History
ENGL 1113 English Composition
CHEM 1315 or CHEM 1335 General Chemistry

Spring 16 Hours
MATH 2924 Calculus II
PHYS 2514 General Physics for Engr & Science Majors
ENGL 1213 or EXPO 1213 English Comp or Expository Writing
CHEM 1415 or CHEM 1435 or CHEM 1425 (H) General Chemistry

SOPHOMORE
Fall 16 Hours
MATH 2934 Calculus III
PHYS 2524 General Physics for Engr & Science Majors
CH E 2033 Chemical Engineering Fundamentals
CH E 2002 Intro. to Chemical Engineering Computing

Spring 16 Hours
Approved Elective Western Civilization & Culture
Approved Elective Social Science
MATH 3113 Differential Equations
Prereq: MATH 2924 or 2423

JUNIOR
Fall 17 Hours
5 credits from MBIO 2815 or MBIO 3813 & 3812
CH E 3473 Chemical Engineering Thermo.
CH E 3113 Momentum, Heat & Mass Transfer I
MATH 3113 Prereq: MATH 2924 or 2423
CH E 3123 Momentum, Heat & Mass Transfer II
CH E 3723 Numerical Methods for Engr. Comp.

Spring 15 Hours
CH E 3432 Unit Operations
CH E 3113 Structure & Properties of Materials (was 2313)
CH E 3313 Structure & Properties of Materials (was 2313)
CH E 3333 Separation Processes
CH E 4473 Kinetics Additional Prereq: MATH 3113

Fall 16 Hours
CH E 5243 Biochemical Engr. Offered alt. Spring only
CH E 3313 Structure & Properties of Materials (was 2313)
ENGR 2431 Electrical Circuits I Prereq: MATH 2924 or 2423
ENGR 3431 Electromechanical Systems
PS 1113 Am. Fed. Govt.

Spring 13 Hours
CH E 4262 Chem. Engr. Design Lab I
CH E 4273 Advanced Process Design
CH E 4253 Process Design & Safety
CH E 4211 Applied Engr Statics Prereq PHYS 2514 Co-req MATH 2934 or 2433
ENGR 3423 Numerical Methods for Engr. Comp.

Key and Important Notes
H = Honors option
Foreign Language: 2 semesters college level or 2 years of high school.
Shaded courses offered once per year.

Name: ____________________  Sooner ID: ____________________

Co-requisite
Prerequisite
At least one of these Gen. Ed. courses must be 3000-4000 level.