Bachelor of Science in Chemical Engineering (CH E – B161 Biotechnology)
Summer 2018 through Spring 2019 – 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

Spring 16 Hours

MATH 2924 Calculus II

ENGR 1411 or 3511 Freshman / Transfer Engineering Experience

PHYS 2514 General Physics for Engr & Science Majors

HIST 1483 or 1493 U.S. History

ENGL 1113 English Composition

CHEM 1315 or CHEM 1335 General Chemistry

SOPHOMORE

Fall 16 Hours

MATH 2934 Calculus III

Approved Elective

Western Civilization & Culture

alt. MATH 2443

PHYS 2524 General Physics for Engr & Science Majors

Approved Elective

Social Science

CH E 2033 Chemical Engineering Fundamentals

CH E 2002 Intro. to Chemical Engineering Computing


CHEM 1415 or CHEM 1435 or CHEM 1425 (H) General Chemistry


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 Differential Equations

Prereq: MATH 2924 or 2423

MATH 3113

Approved Elective

Approved Elective

Approved Elective

ENGR 2002 Prof. Development

Prereq: ENGL 1213 & Soph standing
Coreq: ENGR 1411/3511

CHEM 3423 Physical Chemistry I

CH E 4262 Chem. Engr. Design Lab I

CH E 4323 Process Design & Control

CH E 4153 Process Dynamics & Control

CH E 3723 Numerical Methods for Engr. Comp.

CH E 3123 Momentum, Heat & Mass Transfer II

CH E 3333 Separation Processes

CH E 4473 Kinetics

Additional Prereq: MATH 3113

Seniors

Spring 16 Hours

CH E 5243 Biochemical Engr.

Prereq: MATH 2924 or 2423

Offered alt. Spring only

CH E 3313 Structure & Properties of Materials (was 2313)

ENGR 2431 Electrical Circuits I

Prereq: PHYS 2524

ENGR 3431 Electromechanical Systems


Approved Elective

Approved Elective

Approved Elective

ENGR 2411 Applied Engr Statics

Prereq: PHYS 2514

Co-req: MATH 2934 or 2433

CH E 4372

Key and Important Notes

H = Honors option

Prerequisite

Foreign Language: 2 semesters college level or 2 years of high school.

Shaded courses offered once per year.

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