Bachelor of Science in Chemical Engineering (CH E – B164 Bioengineering)
Summer 2023 through Spring 2024 – Total Credit Hours: 128

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.

Key and Important Notes
- H = Honors option
- Co-requisite
- Prerequisite
- At least one of these Gen. Ed. courses must be 3000-4000 level.
- Foreign Language: 2 semesters college level or 2 years of high school.
- Fall or Spring ONLY
- HS History Deficiency

Name: ___________________________ Sooner ID: ___________________________

FRESHMAN
- Fall 16 Hours
  - MATH 1914 Calculus I
  - ENGR 1411/1421/3511 Engineering Thinking
  - CAS 1523 / 1533 / 1543 First-Year Experience

- 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

SOPHOMORE
- Fall 18 Hours
  - MATH 2934 Calculus III
  - PHYS 2524 General Physics for Engr & Science Majors
  - CHEM 3423 Physical Chemistry I
    Additional Prereq: CH E 2003 Computing
  - ENGR 1411/1421/3511 Engineering Thinking
  - CH E 2003 Calculus Fundamentals

- Spring 16 Hours
  - ENGR 1411/1421/3511 Engineering Thinking
  - PHYS 2524 General Physics for Engr & Science Majors
  - CHEM 3423 Physical Chemistry I
    Additional Prereq: MATH 2924 or 2423
  - CHEM 2033 Intro to CH E

JUNIOR
- Fall 16 Hours
  - MATH 3113 Differential Equations
    Prereq: MATH 2924 or 2423
  - ENGR 1411/1421/3511 Engineering Thinking
  - CHEM 3423 Physical Chemistry I
    Additional Prereq: MATH 2924 or 2423
  - CHEM 3423 Chemical Engineering Thermodynamics
  - BIOL 1124 Introductory Biology

- Spring 16 Hours
  - MATH 3113 Differential Equations
    Prereq: MATH 2924 or 2423
  - ENGR 1411/1421/3511 Engineering Thinking
  - CHEM 3423 Physical Chemistry I
    Additional Prereq: MATH 2924 or 2423
  - HIST 1483 or HIST 1493 American History

SENIOR
- Fall 16 Hours
  - PSC 1113 Am. Fed. Govt.
  - CH E 3113 Momentum, Heat & Mass Transfer I
    Additional Prereqs: MATH 2924 or 2423
  - ENGR 3473 Chemical Engineering Thermo.
    Additional Prereqs: MATH 2924 or 2423
  - CH E 4253 Process Dynamics & Control
    Prereq: PHYS 2514

- Spring 16 Hours
  - ENGR 2431 Electrical Circuits I
    Additional Prereqs: MATH 2924 or 2423
  - CHEM 3473 Chemical Engineering Thermo.
  - CH E 3333 Separation Processes
  - CHEM 3153 Physical Chemistry I
    Prereq: CHEM 1415
    Coreq: MATH 2924 or 2423

- Fall 16 Hours
  - CHEM 3423 Physical Chemistry Lab
  - CHEM 4473 Kinetics
    Additional Prereqs: MATH 3113 &
  - BIOL 1303 or BIOL 1313 or BIOL 1433
  - MATH 3103 Differential Equations
    Prereq: MATH 2924 or 2423

- Spring 16 Hours
  - CH E 3423 Chemical Engineering Computing
  - CH E 4262 Chem. Engr. Design Lab I
    Additional Prereqs: MATH 2924 or 2423
  - CHEM 3423 Physical Chemistry I
    Prereq: CHEM 1415
    Coreq: MATH 2924 or 2423
  - CHEM 4473 Kinetics
    Additional Prereqs: MATH 3113 &

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*Bioengineering Core Electives Note:
- CHE 4203: Pre-reqs PHYS2524 and MATH3113
- CHE 5243: CHE3123, 5000+ courses require permission of instructor

Choose between CHEM3653, CHEM3753, MBI03813, BIOL3103, BIOL3113, BIOL3333, BIOL4843, CHEM2423, CHEM4203, CHEM5293, CHEM5373.