Bachelor of Science in Chemical Engineering (CH E – B164 Bioengineering)
Summer 2022 through Spring 2023 – 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.

FRESHMAN

Fall 16 Hours
- MATH 1914 Calculus I
- ENGR 1411 or 3511 Freshman / Transfer Engineering Experience
- UCOL 1523 / 1533 / 1543 First-Year Experience
- 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
- BIOL 1124 Introductory Biology
- CHEM 1415 or CHEM 1435 or CHEM 1425 (H) General Chemistry

Fall 18 Hours
- MATH 2934 Calculus III
- PHYS 2524 General Physics for Engr & Science Majors
- CHEM 2033 Chemical Engineering Fundamentals
- ENGR 1411 or 3511 Freshman / Transfer Engineering Experience
- CHEM 1415 or CHEM 1435 or CHEM 1425 (H) General Chemistry

Spring 16 Hours
- CHEM 3423 Physical Chemistry I
  Prereq: CHEM 1415 Coreq: MATH 2924 or 2423
- CH E 2003 Intro. to CH E Computing
- MATH 3113 Differential Equations
  Prereq: MATH 2924 or 2423
- BIOL 1124 Introductory Biology

JUNIOR

Fall 16 Hours
- CHEM 3421 Physical Chemistry Lab
- CH E 3013 Momentum, Heat & Mass Transfer I
- ENGR 2002 Prof. Development
  Prereq: ENGL 1213 Coreq: ENGR 1411/3511
- HIST 1483 or HIST 1493 American History

Spring 14 Hours
- CH E 3473 Chemical Engineering Thermo.
  Additional Prereq: CH E 2033 & MATH 2934 or 2443
- CH E 3123 Momentum, Heat & Mass Transfer II
- CH E 3203 Chemical Engineering Thermodynamics
  Additional Prereq: MATH 2934 or 2433
- MATH 3113 Numerical Methods for Engr. Comp.
  Prereq: MATH 2924 or 2423
- CHEM 3723 Kinetics
  Additional Prereq: MATH 3113 &
- HIST 1483 or HIST 1493 American History
- Approved Elective Social Science

SENIOR

Fall 16 Hours
- CH E 3422 Unit Operations
- CH E 3432 Unit Operations
- CH E 4473 Kinetics
  Additional Prereq: MATH 3113 &
- CH E 4253 Process Design & Safety
  Additional Prereq: PHYS 2524
- CH E 4253 Process Design & Safety
- CH E 4153 Process Dynamics & Control
- CHEM 3423 Physical Chemistry I
  Prereq: CHEM 1415 Coreq: MATH 2924 or 2423
- CHEM 3113 Differential Equations
  Prereq: MATH 2924 or 2423
- ENGR 2431 Electrical Circuits I
  Prereq: MATH 2924 or 2433
- ENGR 2431 Electrical Circuits I
  Co-req: PHYS 2524
- ENGR 4253 Process Design & Safety
  Co-req: PHYS 2524
- PSC 1113 Am. Fed. Govt.
- Approved Elective Artistic Forms
- Approved Elective Non-Western Culture
- CH E 3313 Structure & Properties of Materials (was 2313)
- CH E 3223 Advanced Process Design
- CHE 2002 Prof. Development
  Prereq: ENGL 1213 Coreq: ENGR 1411/3511
- CHE 2002 Prof. Development
  Prereq: ENGL 1213 Coreq: ENGR 1411/3511
- CHE 3333 Separation Processes
- CHE 4253 Process Design & Safety
  Additional Prereq: CH E 3123
- CHE 4253 Process Design & Safety
  Additional Prereq: CH E 3123
- CH E 4273 Advanced Process Design
- CH E 4273 Advanced Process Design
- ENGR 2411 Applied Engr Statics
  Prereq: PHYS 2514 Co-req: MATH 2924 or 2433
- ENGR 2411 Applied Engr Statics
  Prereq: PHYS 2514 Co-req: MATH 2924 or 2433
- Technical Elective I
- Technical Elective II
- Approved Elective Western Civilization & Culture
- Approved Elective Western Civilization & Culture
- *Bioengineering Core Electives Note: CHE4203: Pre-reqs PHYS2524 and MATH3113
  CHE5243: CHE3123, 5000+ courses require permission of instructor

Key and Important Notes
- H = Honors option
- 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

Choose between CHEM3653, CHEM3753, Mbio3813, BIOL3103, BIOL3113, BIOL3333, BIOL4843, CHE5243, CHE4203, CHE5293, CHE5373.