Bachelor of Science in Chemical Engineering (CH E – B163 Pre-medical / Biomedical Engineering)
Summer 2018 through Spring 2019 – Total Credit Hours: 132

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

- MATH 1914 Calculus I
- ENGR 1411 or 3511 Freshman / Transfer Engineering Experience
- HIST 1483 or 1493 U.S. History
- CHEM 1315 or CHEM 1335 General Chemistry

SOPHOMORE

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

JUNIOR

- MATH 2934 Calculus III
- PHYS 2524 General Physics for Engr & Science Majors
- CH E 2033 Chemical Engineering Fundamentals

SENIOR

- Approved Elective Western Culture
- ENGR 2002 Prof. Development
- PHYS 2524 General Physics for Engr & Science Majors
- MATH 3113 Differential Equations
- CH E 3473 Chemical Engineering Thermo.

Key and Important Notes
- At least one of these Gen. Ed. courses must be 3000-4000 level.
- Shaded courses offered Fall or Spring only.
- Pre-Medical: Recommend taking BIOL1114 & 1121 summer Freshman year.
- MCAT in April
- Approved Elective Artistic Forms
- Approved Elective Non-Western Culture

- CHEM 3653 Intro to Biochemistry
  If taken during JUNIOR year, take your option below.
- CHEM 3423 Physical Chemistry I
  Concurrent: MATH 2423/2924
- CHEM 3421 Physical Chemistry Lab

- CHEM 3635 Intro to Biochemistry
  If taken during JUNIOR year, take your option below.
- CHEM 3423 Physical Chemistry I
  Concurrent: MATH 2423/2924
- CHEM 3421 Physical Chemistry Lab

- ENGR 2411 Applied Engineering Statics
  Coreq: PHYS 2524
- CH E 2002 Intro to Chemical Engineering Computing
- CHE 5203 offered alternate even Fall only

- CH E 4253 Process Design & Safety
- CH E 3113 Momentum, Heat & Mass Transfer I
  Co-req: MATH 2443/2934

- CH E 4153 Advanced Process Design

- CH E 4273 Advanced Process Design
- CH E 3433 Separation Processes

- CH E 3443 Kinetics Additional prereq:
  MATH 3113

- CH E 4262 Chemical Engineering Design Lab I
- CH E 4253 Process Design & Safety

- PRE-MED OPTION
  CH E Tech Elective I
  CH E 5203 offered

- BIOMED OPTION
  CH E Tech Elective I
  CHEM 5203 offered alternate even Fall only

- PRE-MED OPTION
  MATH 2423/2924
- BIOMED OPTION
  MATH 2423/2924

All students must take CHEM 3653 Intro to Biochem and two technical electives. Follow the Pre-med or Biomed option choices.

Pre-Medical: One of the electives must be chosen from BIOL 3113, 3333, or 4853. See Pre-Med advisor each semester.

Biomedical: Technical electives must include CH E 5203 (offered alternate even Fall only) and an approved biological content elective.

Pre-Medical: Recommend taking BIOL1114 & 1121 summer Freshman year. Co-req: MATH 2443/2934

MCAT in April