

Name: \_\_\_\_\_

Sooner ID: \_\_\_\_\_

## Bachelor of Science in Chemical Engineering (Pre-Medical Option) B163

Summer 2023 through Spring 2024 – Total Credit Hours: 135

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

### SOPHOMORE

### JUNIOR

### SENIOR

Fall  
16 Hours

Spring  
16 Hours

Fall  
18 Hours

Spring  
17 Hours

Fall  
17 Hours

Spring  
18 Hours

Fall  
16 Hours

Spring  
17 Hours

**MATH 1914**  
Calculus I

**MATH 2924**  
Calculus II

**MATH 2934**  
Calculus III

**CHEM 3423**  
Physical Chemistry I

**CH E Tech Elective I**



**Approved Elective** ★  
World Culture

**ENGR 1411 or 3511**  
Freshman / Transfer  
Engineering Thinking

**PHYS 2514**  
General Physics for  
Engr & Science  
Majors

**PHYS 2524**  
General Physics for  
Engr & Science  
Majors

*Coreq:*  
**MATH 2423/2924**  
*Prereq:*  
**CHEM 1415/1435/1425**

**CHOOSE ONE**  
BIOL 3113  
BIOL 3333  
BIOL 4843

**P SC 1113**  
American Federal  
Government

**Approved Elective** ★  
Western Culture

**Approved Elective** ★  
Artistic Forms

**CAS 1523 / 1533 / 1543**  
First-Year  
Experience

**CH E 2033**  
Chemical Engineering  
Fundamentals

**CH E 3113**  
Momentum, Heat &  
Mass Transfer I

**CH E 3473**  
Chemical  
Engineering  
Thermo.

**CHEM 3421**  
Physical Chemistry  
Lab

**BIOL 3103**  
Principles  
of Physiology  
*Prereq: BIOL1134 or  
instructor permission*

**BIOL 3101**  
Principles of  
Physiology Lab

**ENGL1113**  
English Composition

**ENGL 1213 or  
EXPO 1213**  
English Comp or  
Exploratory Writing

**BIOL 1124**  
Intro Biology

**MATH 3113**  
Differential Equations

**CH E 3123**  
Momentum, Heat &  
Mass Transfer II

**CH E 3432**  
Unit Operations

**CH E 4262**  
Chem. Engr. Design  
Lab I

**HIST 1483 or 1493**  
U.S. History

**CHEM 1315 or  
CHEM 1335**  
General Chemistry

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

**CHEM 3053**  
Organic Chemistry I:  
Biol. Emph.

**CHEM 3153**  
Organic Chemistry II:  
Biol. Emph.

**CH E 3123**  
Momentum, Heat &  
Mass Transfer II

**CH E 3333**  
Separation  
Processes

**CH E 4253**  
Process Design &  
Safety

**CH E 4273**  
Advanced Process  
Design

**CHEM 1315 or  
CHEM 1335**  
General Chemistry

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

**CHEM 3053**  
Organic Chemistry I:  
Biol. Emph.

**CHEM 3153**  
Organic Chemistry II:  
Biol. Emph.

**CHEM 3653**  
Intro to Biochemistry

**CH E 4473**  
Kinetics  
*Additional prereq:*  
**MATH 3113**

**CH E 4153**  
Process Dynamics  
& Control

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

**CHEM 1315 or  
CHEM 1335**  
General Chemistry

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

**CHEM 3053**  
Organic Chemistry I:  
Biol. Emph.

**CHEM 3153**  
Organic Chemistry II:  
Biol. Emph.

**ENGR 2002**  
Prof. Development

**CH E Tech Elective II**

**CHOOSE ONE**  
BIOL 3113  
BIOL 3333  
BIOL 4843

**ENGR 2431**  
Electrical Circuits I

*Prereq: MATH 2423/2924*  
*Coreq: PHYS 2524*

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

*Prereq:*  
**CH E 3123**

### Key and Important Notes

- ☐ ★ 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. ☐ HS History Deficiency
- ☐ Fall or Spring ONLY      ↔ Pre-requisite      <---> Co-requisite      H = Honors