

Name: _____

Sooner ID: _____

Bachelor of Science in Chemical Engineering (Pre-medical) B163

Summer 2021 through Spring 2022 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
or **MATH 2443****CHEM 3423**
Physical Chemistry I
Coreq:
MATH 2423/2924
Prereq:
CHEM 1415/1435/1425**ENGR 2002**
Prof. Development
Prereq: ENGL 1213 & Soph standing
Co-req: ENGR 1411/3511**BIOL 3103**
Principles of Physiology
*Prereq: BIOL1134 or instructor permission***BIOL 3101**
Principles of Physiology Lab**ENGR 1411 or 3511**
Freshman / Transfer Engineering Experience**PHYS 2514**
General Physics for Engr & Science Majors**PHYS 2524**
General Physics for Engr & Science Majorsor **MATH 2443****CHEM 3421**
Physical Chemistry Lab**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***Approved Elective**
First-Year Experience (Core V)**CH E 2033**
Chemical Engineering Fundamentals**CH E 3113**
Momentum, Heat & Mass Transfer I
*Co-req: MATH 2443/2934***CH E 3473**
Chemical Engineering Thermo.**CH E 3432**
Unit Operations**ENGR 3431**
Electromech Systems**HIST 1483 or 1493**
U.S. History**ENGL1113**
English Composition**ENGL 1213 or EXPO 1213**
English Comp or Exploratory Writing**BIOL 1124**
Intro Biology
may sub w/ former **BIOL1114/1121****MATH 3113**
Differential Equations
*Prereq: MATH 2423/2924***CH E 3123**
Momentum, Heat & Mass Transfer II**CH E 3333**
Separation Processes**CH E 4262**
Chem. Engr. Design Lab I**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 Tech Elective II**
CHOOSE ONE
BIOL 3113
BIOL 3333
BIOL 4843**CH E 4253**
Process Design & Safety**ENGR 2411**
Applied Engineering Statics
Coreq: MATH 2433/2934
*Prereq: PHYS 2514***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 H = Honors
☐ Shaded courses offered Fall or Spring only. ☐ Co-requisite

+ **Pre-Medical:** Recommend BIOL1124 (formerly BIOL1114 & 1121) summer Freshman year.

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 4203 (offered alternate even Falls only)** and an approved biological content elective.

Approved Elective
Social Science**Approved Elective**
Artistic Forms