

Name: _____

Sooner ID: _____

Bachelor of Science in Chemical Engineering (Bioengineering) B164

Summer 2021 through Spring 2022 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**SOPHOMORE****JUNIOR****SENIOR****Fall**
16 Hours**Spring**
16 Hours**Fall**
18 Hours**Spring**
16 Hours**Fall**
16 Hours**Spring**
14 Hours**Fall**
16 Hours**Spring**
16 Hours**MATH 1914**
Calculus I**MATH 2924**
Calculus II**MATH 2934**
Calculus III
or **MATH 2443****CHEM 3423**
Physical Chemistry I
Prereq: CHEM 1415
*Coreq: MATH 2924 or 2423***CHEM 3421**
Physical Chemistry
Lab**Approved Elective**
Western Culture ★**P SC 1113**
Am. Fed. Govt.**Approved Elective**
Artistic Forms ★**ENGR 1411 or 3511**
Freshman / Transfer
Engineering
Experience**PHYS 2514**
General Physics for
Engr & Science
Majors**PHYS 2524**
General Physics for
Engr & Science
Majors**CH E 2003**
Intro. to CH E
Computing**CH E 3473**
Chemical
Engineering
Thermo.

Additional Prereq:
CH E 2033 &
MATH 2934 or 2443**Bioengineering
Core Elective***

Choose either
CHE 5243 (S) or
CHE 4203 (F)**ENGR 2431**
Electrical Circuits I

Prereq:
MATH 2924 or 2423
*Co-req: PHYS 2524***Approved Elective**
World Culture ★**Approved Elective**
First-Year
Experience (Core V)**CH E 2033**
Chemical Engineering
Fundamentals**CH E 3113**
Momentum, Heat &
Mass Transfer I**CH E 3123**
Momentum, Heat &
Mass Transfer II**CH E 3432**
Unit Operations**CH E 4262**
Chem. Engr. Design
Lab I**CH E 3313**
Structure &
Properties of
Materials
(was 2313)

Additional prereq:
CH E 3123**ENGL 1113**
English Composition**ENGL 1213 or
EXPO 1213**
English Comp or
Expository Writing**BIOL 1124**
Introductory Biology**MATH 3113**
Differential Equations

Prereq:
MATH 2924 or 2423**CH E 3723**
Numerical Methods
for Engr. Comp.**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 3152**
Organic Chemistry
Lab: Biol. Emph.**HIST 1483 or
HIST 1493**
American History**Approved Elective**
Social Science ★**CH E 4473**
Kinetics

Additional Prereq:
MATH 3113 &
CH E 3473**CH E 4153**
Process Dynamics &
Control**ENGR 2411**
Applied Engr Statics

Prereq: PHYS 2514
*Co-req: MATH 2934 or 2433***Technical Elective I****Technical Elective II**

Choose between CHEM3653, CHEM3753, MBIO3813, BIOL3103, BIOL3113, BIOL3333, BIOL4843, CHE5243, CHE4203, CHE5293, CHE5373.

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.

Shaded courses offered once per year.

HS History Deficiency

Bioengineering Core Electives Note:*CHE4203:** Pre-reqs PHYS2524 and MATH3113**CHE5243:** CHE3123 or permission of instructor