

Bachelor of Science in Chemical Engineering (Sustainability Option) B165

Summer 2023 through Spring 2024 – Total Credit Hours: 127

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
15 Hours

Spring
16 Hours

Fall
15 Hours

Spring
17 Hours

Fall
16 Hours

Spring
16 Hours

MATH 1914
Calculus I

MATH 2924
Calculus II

MATH 2934
Calculus III

or MATH 2443

Approved Elective ★
Social Science

Approved Elective ★
Western Culture

P SC 1113
American Federal
Government

Approved Elective ★
World Culture

ENGR
1411/1421/ 3511
Engineering Thinking

PHYS 2514
General Physics for
Engr & Science
Majors

PHYS 2524
General Physics for
Engr & Science
Majors

or MATH 2443

CH E 3473
Chemical
Engineering
Thermodynamics

Approved Elective ★
Artistic Forms

Sustainability ⓘ
Technical Elective I

Sustainability ⓘ
Technical Elective II

CAS 1523 / 1533 / 1543
First-Year
Experience

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 & Prop. of
Materials

Prereq:
CH E 3123

ENGL 1113
English Composition

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

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 3423
Physical Chemistry I

Additional Co-req:
MATH 2924 or 2423

CHEM 3421
Physical Chemistry
Lab

CH E 4473
Kinetics

Additional Prereq:
MATH 3113

ENGR 2431
Electrical Circuits I

Prereq: MATH 2924/2423
Co-req: PHYS 2524

CH E 4323
Chemical Process
Sustainability

CHEM 3064
Organic Chemistry I:

CHEM 3164
Organic Chemistry II:

ENGR 2002
Prof. Development

Prereq: ENGL 1213
Co-req: ENGR
1411/1421/3511

HIST 1483 or 1493
U.S. History

ENGR 3431
Electromechanical
Systems

ENGR 2411
Applied Engr Statics

Prereq: PHYS 2514
Coreq:
MATH2433/2934

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.

Fall or Spring ONLY

← - - - → Co-requisite

↔ Prerequisite

- ⓘ CHE5163, 5223, 5453, 5533, 5833 or other courses approved in consultation with faculty
- HS History Deficiency

H = Honors option