

Bachelor of Science in Industrial and Systems Engineering (Pre-Med Option B528)

Summer 2018 through Spring 2019 – Total Credit Hours: 136

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
18 Hours

Spring
19 Hours

Fall
17 Hours

Spring
17 Hours

Fall
17 Hours

Spring
15 Hours

Fall
18 Hours

Spring
15 Hours

MATH 1914
Calculus I

MATH 2924
Calculus II

MATH 2934
Calculus III

ISE 2311
Computer-Aided
Design and
Graphics Lab

ISE 3304
Design and
Manufacturing II

ENGR 2461
Thermodynamics
Prereq: MATH 2934/2433
Co-req: PHYS 2524

ISE 4383
Systems Evaluation

HIST 1483 or 1493
US 1492-1865 or
US 1865-present

ENGR 1411 / 3511
Freshman / Transfer
Engineering
Experience

PHYS 2514
General Physics for
Engr & Science
Majors

PHYS 2524
Gen. Physics for
Engr & Science
Majors

ISE 2303
Design and
Manufacturing
Processes

ENGR 2431
Electrical Circuits
Prereq: MATH 2924/2423
Co-req: PHYS 2524

ENGR 3441
Fluid Mechanics
Prereq: MATH 2934/2433
Co-req: PHYS 2524

ISE 4663
Systems Analysis
Using Simulation
*Additional Prereq:
ISE 3293*

Approved Elective
Artistic Forms

ENGL 1113
English Composition

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

CEES 2113
Statics

CEES 2153
Mechanics of
Materials

ISE 4623
Deterministic
Systems Models

ISE 4633
Probabilistic
Systems Models
*Additional Prereq:
ISE 3293*

ISE 4333
Productions
Systems & Ops
Prereq: ISE 2823

ISE 4393
Capstone Design
Project

ISE 2823
Enterprise
Engineering
*Prereq:
Soph standing*

ENGR 2002
Prof. Development
Prereq: Soph standing

ISE 4623
Deterministic
Systems Models

ISE 4804
Ergonomics in
System Design
Prereq: Jr. standing

ISE 4333
Productions
Systems & Ops
Prereq: ISE 2823

BIOL 1114
Introductory Zoology
*or BIOL1124
Will meet BIOL1114
and 1121*

3-hrs CS Programming:
**CS 1313 or
CS 1321/ 1323/ 1324**

ISE 2823
Enterprise
Engineering
*Prereq:
Soph standing*

ISE 3293
Applied Engr. Statistics
*Prereq:
MATH 2924/2433*

ISE 4113
Spreadsheet-Based
Decision Support
Systems

ISE 4804
Ergonomics in
System Design
Prereq: Jr. standing

ISE 4853
Data-Driven
Decision Making II

BIOL 1121
Intro Zoology Lab

CHEM 3053
Organic Chemistry

CHEM 3152
Organic Chem Lab

ISE 4553
Data-Driven
Decision Making I

ISE 4563
Quality and
Reliability Engr
*Additional Prereq:
ISE 3293*

PSC 1113
American Federal
Government

CHEM 1315
General Chemistry

CHEM 1415
General Chemistry II

CHEM 3153
Organic Chemistry II

**BIOL 3113 or 3333 or
4853**
*Additional Prereq:
BIOL 1114, 1124 or 1134*

ISE 4223
Fundamentals
of Engr Economy
*Prereq:
MATH 2924/2423*

Approved Elective
Non-Western Culture

Approved Elective
Western Civilization
& Culture

- ☐ ★ 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.
- ◊ CS placement survey must be taken. Link in classnav.ou.edu course description.
- Note: Utilize flowcharts as a supplemental guide to OU Official check sheet <http://checksheets.ou.edu> and regular visits with your WSSC College Advisor
- ←---→ Co-requisite. ←→ Prerequisite ◻ Shaded courses offered once per year.