Bachelor of Science in Industrial and Systems Engineering (Standard Option B524)
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
Fall 16 Hours
- MATH 1914 Calculus I
- CHEM 1315 General Chemistry (Prereq: MATH 1503)
- ENGL 1113 English Composition
- CAS 1523/1533/1543 First-year Experience (Core V)
- ENGR 1411/1421/3511 Pathways to Engineering Thinking

Spring 14 Hours
- MATH 2924 Calculus II
- PHYS 2514 General Physics for Engr & Science Majors
- ENGL 1213 or EXPO 1213 English Comp or Expository Writing
- HIST 1483 or 1493 US 1492-1865 or US 1865-present
- ENGR 2002 Professional Development (Prereq: Soph standing)

SOPHOMORE
Fall 19 Hours
- MATH 2934 Calculus III
- PHYS 2524 Gen. Physics for Engr & Science Majors
- CEES 2113 Statics
- ISE 2823 Enterprise Engineering (Prereq: Soph standing)
- ISE 3293 Applied Engr. Statistics (Prereq: MATH 2924/2433)

Spring 16 Hours
- ISE 2311 Computer-Aided Design and Graphics Lab
- ISE 2393 Design and Manufacturing Processes
- ISE 3293 Design and Manufacturing II
- 3-hr MATH Elective
- 3-hour ISE Elective (Any 4000-5000 level ISE course)

JUNIOR
Fall 16 Hours
- ISE 3304 Design and Manufacturing II
- ISE 3304 Design and Manufacturing II
- ISE 4233 Deterministic Systems Models
- ISE 4804 Ergonomics in System Design (Prereq: Jr. standing)
- ISE 4563 Quality and Reliability Engr. (Additional Prereq: ISE 3293)

Spring 15 Hours
- 3-hr ISE Elective
- 3-hr ISE Elective
- ISE 4623 Systems Analysis Using Simulation (Additional Prereq: ISE 3293)
- ISE 4563 Quality and Reliability Engr. (Additional Prereq: ISE 3293)
- ISE 4233 Deterministic Systems Models

SENIOR
Fall 16 Hours
- ENGR 2461 Thermodynamics
- ENGR 4223 Fundamentals of Engr Economy (Prereq: MATH 2924/2423)
- ENGR 4333 Productions Systems & Ops (Additional Prereq: ISE 2823)
- ENGR 4853 Data-Driven Decision Making II

Spring 15 Hours
- ISE 4393 Capstone Design Project
- ISE 4333 Productions Systems & Ops
- ISE 4553 Data-Driven Decision Making I
- ISE 4223 Fundamentals of Engr Economy (Prereq: MATH 2924/2423)
- ISE 4804 Ergonomics in System Design (Prereq: Jr. standing)

- Approved Elective World Culture
- Approved Elective Social Science
- Approved Elective Artistic Forms
- 3-hr MATH Elective
- 1 of the following: MATH 2513, 3113, 3333, 3413, 3613, 4433
- 3-hr ENGR Elective (Engineering 3000+)
- PSC 1113 American Federal Government
- 3-hr CS Programming: CS 1313 or CS 1321/1323/1324

- 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.