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

- Fall 18 Hours
  - MATH 1914 Calculus I
  - ENGR 1411 / 3511 Freshman / Transfer Engineering Experience
  - ENGL 1113 English Composition
  - CHEM 1315 General Chemistry

SOPHOMORE

- Spring 19 Hours
  - MATH 2924 Calculus II
  - ENGL 1213 or EXPO 1213 English Comp or Expository Writing
  - PHYS 2514 General Physics for Engr & Science Majors
- Fall 17 Hours
  - MATH 2934 Calculus III
  - PHYS 2524 Gen. Physics for Engr & Science Majors
  - CEES 2113 Statics
  - ISE 2823 Enterprise Engineering
  - BIOL 1114 Introductory Zoology
  - or BIOL 1121 Intro Zoology Lab
  - CHEM 1415 General Chemistry II

JUNIOR

- Spring 17 Hours
  - ISE 2311 Computer-Aided Design and Graphics Lab
  - ISE 2303 Design and Manufacturing Processes
  - ENGR 2431 Electrical Circuits
  - ISE 3293 Applied Engr. Statistics
  - ISE 3053 Organic Chemistry II

- Fall 17 Hours
  - ISE 3304 Design and Manufacturing II
  - ISE 4623 Deterministic Systems Models
  - ISE 4113 Spreadsheet-Based Decision Support Systems
  - ISE 4223 Fundamentals of Engr Economy

SENIOR

- Spring 17 Hours
  - ENGR 2461 Thermodynamics
  - ENGR 3441 Fluid Mechanics
  - ISE 4004 Ergonomics in System Design
  - ISE 4223 Fundamentals of Engr Economy
  - ISE 4853 Data-Driven Decision Making II

- Fall 17 Hours
  - ISE 4393 Capstone Design Project
  - ISE 4333 Productions Systems & Ops
  - ISE 4663 Systems Analysis Using Simulation
  - ISE 4563 Quality and Reliability Engr
  - ISE 4633 Probabilistic Systems Models

- Spring 15 Hours
  - ISE 4303 Design and Manufacturing II
  - ISE 4563 Quality and Reliability Engr
  - ISE 4633 Probabilistic Systems Models
  - ISE 4804 Ergonomics in System Design
  - ISE 4853 Data-Driven Decision Making II

- Fall 15 Hours
  - ISE 4663 Systems Analysis Using Simulation
  - ISE 4563 Quality and Reliability Engr
  - ISE 4633 Probabilistic Systems Models
  - ISE 4804 Ergonomics in System Design
  - ISE 4853 Data-Driven Decision Making II

- Spring 15 Hours
  - ISE 4393 Capstone Design Project

- Fall 18 Hours
  - HIST 1483 or 1493 US 1492-1865 or US 1865-present

- Spring 15 Hours
  - ISE 4303 Design and Manufacturing II

Additional Prereq:
- BIOL 1114, 1124 or 1134

Note: Utilize flowcharts as a supplemental guide to OU Official check sheet http://checksheets.ou.edu and regular visits with your WSSC College Advisor

- 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.
- Co-requisite.
- Prerequisite
- Shaded courses offered once per year.
- CS placement survey must be taken. Link in classnav.ou.edu course description.

- Fall 17 Hours
  - ENGR 2431 Electrical Circuits
  - ISE 3293 Applied Engr. Statistics
  - ISE 3053 Organic Chemistry II

- Spring 15 Hours
  - ISE 4663 Systems Analysis Using Simulation
  - ISE 4563 Quality and Reliability Engr
  - ISE 4633 Probabilistic Systems Models
  - ISE 4804 Ergonomics in System Design
  - ISE 4853 Data-Driven Decision Making II

- Fall 18 Hours
  - HIST 1483 or 1493 US 1492-1865 or US 1865-present

- Spring 15 Hours
  - ISE 4303 Design and Manufacturing II

Approved Elective
- Artistic Forms
- Non-Western Culture
- Western Civilization & Culture
- Social Science
- Non-Western Culture
- Western Civilization & Culture
- Social Science

Prerequisite:
- BIOL 1114, 1124 or 1134

Prereq: Soph standing
- ISE 2823 Enterprise Engineering
- ENGR 2002 Prof. Development
- ISE 4113 Spreadsheet-Based Decision Support Systems
- ISE 4223 Fundamentals of Engr Economy

Prereq: MATH 2924/2423
- ISE 2311 Computer-Aided Design and Graphics Lab
- ISE 3293 Applied Engr. Statistics
- ISE 4223 Fundamentals of Engr Economy

Prereq: MATH 2924/2433
- ISE 3304 Design and Manufacturing II
- ISE 4623 Deterministic Systems Models
- ISE 4563 Quality and Reliability Engr

Prereq: PHYS 2524
- PHYS 2524 Gen. Physics for Engr & Science Majors
- PHYS 2514 General Physics for Engr & Science Majors
- ISE 3053 Organic Chemistry II
- ISE 3152 Organic Chem Lab
- CHEM 3152 Organic Chem Lab
- CHEM 3153 Organic Chemistry II
- CHEM 3153 Organic Chemistry II
- CHEM 3153 Organic Chemistry II

Co-req: PHYS 2524
- ENGR 2461 Thermodynamics
- ENGR 3441 Fluid Mechanics
- ISE 4553 Data-Driven Decision Making I
- ISE 4623 Deterministic Systems Models

Co-req: MATH 2924/2433
- ISE 3304 Design and Manufacturing II
- ISE 4623 Deterministic Systems Models
- ISE 4553 Data-Driven Decision Making I

Additional Prereq:
- BIOL 1114, 1124 or 1134
- ISE 3293 Applied Engr. Statistics
- ISE 3053 Organic Chemistry II
- ISE 3152 Organic Chem Lab
- CHEM 3152 Organic Chem Lab
- CHEM 3153 Organic Chemistry II
- CHEM 3153 Organic Chemistry II
- CHEM 3153 Organic Chemistry II