Bachelor of Science in Industrial and Systems Engineering (Standard Option B524)
Summer 2017 through Spring 2018 – Total Credit Hours: 124
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
  - ENGL 1113 English Composition
  - PSC 1113 American Federal Government
  - ENGR 1411 / 3511 Freshman / Transfer Engineering Experience

- Spring 14 Hours
  - MATH 2924 Calculus II
  - PHYS 2514 General Physics for Engr & Science Majors
  - HIST 1483 or 1493 US 1492-1865 or US 1865-present

**SOPHOMORE**
- Fall 16 Hours
  - MATH 2934 Calculus III
  - PHYS 2524 General Physics for Engr & Science Majors
  - ENGR 2002 Professional Development
  - ISE 2903 Introduction to Comp Prog for Non-Majors
  - ISE 2823 Enterprise Engineering
  - ISE 2133 Statics
  - CEES 2153 Mechanics of Materials
  - ISE 293 Applied Engineering Statistics
  - MATH Elective

- Spring 16 Hours
  - ISE 2311 Computer-Aided Design and Graphics Lab
  - ISE 2003 Design and Manufacturing Processes
  - ISE 4223 Fundamentals of Engineering Economy
  - ISE 4553 Data-Driven Decision Making I
  - ISE 3293 Quality and Reliability Engineering
  - ISE 4223 Artistic Forms

- Junior standing:
  - ISE 4804

- Senior standing:
  - ISE 4393 Capstone Design Project
  - ISE Elective

**JUNIOR**
- Fall 16 Hours
  - Approved Elective Social Science
  - ENGR 2461 Thermodynamics
  - ENGR 3441 Fluid Mechanics
  - ISE 3304 Design and Manufacturing Processes
  - ISE 4623 Deterministic Systems Models
  - ISE 4633 Probabilistic Systems Models
  - ISE 4333 Production Systems and Operations
  - ISE 4763 Manufacturing Systems

- Spring 15 Hours
  - ENGR 2461 Thermodynamics
  - ENGR 3441 Fluid Mechanics
  - ISE 3304 Design and Manufacturing Processes
  - ISE 4623 Deterministic Systems Models
  - ISE 4633 Probabilistic Systems Models
  - ISE 4333 Production Systems and Operations
  - ISE 4763 Manufacturing Systems

**SENIOR**
- Fall 16 Hours
  - ENGR 2431 Electrical Circuits
  - ISE Elective

- Spring 15 Hours
  - ISE 4393 Capstone Design Project

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**Key and Important Notes**
- MATH 2433* or 2924 is pre-requisite (*ENGR 2431 & ISE 4223 accept MATH 2423).
- At least one of these Gen. Ed. courses must be 3000-4000 level.
- MATH 2433 or 2934 is pre-requisite (*CEES 2113 will allow concurrent enrollment).
- ISE 3293 is pre-requisite.
- Must have completed all ISE courses scheduled in prior semesters.
- Foreign Language: 2 semesters college level or 2 years of high school.
- Shaded courses offered once per year.