Bachelor of Science in Industrial and Systems Engineering (Analytics Option B529)
Summer 2018 through Spring 2019 – Total Credit Hours: 132

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 17 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

SOPHOMORE

Fall 18 Hours
- MATH 2934 Calculus III
- PHYS 2524 Gen. Physics for Engr & Science Majors
- CEES 2113 Statics
- ISE 2823 Enterprise Engineering
- Prereq: Soph standing

Spring 16 Hours
- ISE 2311 Computer-Aided Design and Graphics Lab
- ISE 2303 Design and Manufacturing Processes
- ISE 2513 Discrete Math Structures
- Prereq: MATH 2924/2423

JUNIOR

Fall 16 Hours
- ISE 3304 Design and Manufacturing II
- ISE 3504 Deterministic Systems Models
- ISE 3293 Applied Engr. Statistics
- Prereq: MATH 2924/2433

Spring 18 Hours
- ENGR 2461 Thermodynamics
- ENGR 4411 Fluid Mechanics
- Prereq: MATH 2934/2433
- Co-req: PHYS 2524
- ISE 4623 Prob. Systems Models
- Additional Prereq: ISE 3293

SENIOR

Fall 16 Hours
- ENGR 3441 Fluid Mechanics
- Prereq: MATH 2934/2433
- Co-req: PHYS 2524
- ISE 4663 Systems Analysis Using Simulation
- Additional Prereq: ISE 3293

Spring 15 Hours
- ISE 4333 Productions Systems & Ops
- Prereq: ISE 2823
- ISE 4553 Data-Driven Decision Making II
- Additional Prereq: ISE 3293
- ISE 4853 Data-Driven Decision Making II
- Prereq: ISE 2823

3-hour ISE Elective
- Any 4000-5000 level ISE course

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

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

CS placement survey must be taken. Link in classnav.ou.edu course description.

- ☐ ☐ 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.
- ☐ Must earn a B minimum in CS 1321/1323/1324 OR CS 2334 to continue in any remaining CS courses.

Co-requisite. Prerequisite. Shadowed courses offered once per year.