

Name: _____

Sooner ID: _____

Bachelor of Science in Industrial and Systems Engineering (Analytics Option B529)

Summer 2019 through Spring 2020 – 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**SOPHOMORE****JUNIOR****SENIOR****Fall**
16 Hours**Spring**
17 Hours**Fall**
18 Hours**Spring**
16 Hours**Fall**
16 Hours**Spring**
18 Hours**Fall**
16 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**ISE 4383**
Systems Evaluation**3-hour ISE Elective**
*Any 4000-5000 level
ISE course***CHEM 1315**
General Chemistry**PHYS 2514**
General Physics for
Engr & Science
Majors**PHYS 2524**
Gen. Physics for
Engr & Science
Majors**ISE 2303**
Design and
Manufacturing
Processes**ENGR 3441**
Fluid Mechanics
*Prereq: MATH 2934/2433
Co-req: PHYS 2524***Approved Elective**
Social Science ★**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**
Prob. Systems Models
*Additional Prereq:
ISE 3293***ISE 4663**
Systems Analysis
Using Simulation
*Additional Prereq:
ISE 3293***ISE 4393**
Capstone Design
Project**PSC 1113**
American Federal
Government**HIST 1483 or 1493**
US 1492-1865 or
US 1865-present**ISE 2823**
Enterprise
Engineering
*Prereq:
Soph standing***MATH 2513**
Discrete Math
Structures
*Prereq:
MATH 2924/2423***Approved Elective**
Artistic Forms ★**ISE 4333**
Productions
Systems & Ops
*Prereq: ISE 2823***ENGR 1411 / 3511**
Freshman / Transfer
Engineering
Experience**3-hrs CS**
Programming:
CS 1321/ 1323/ 1324**CS 2334**
Programming
Structures and
Abstractions**ISE 3293**
Applied Engr.
Statistics
*Prereq:
MATH 2924/2433***ISE 4113**
Spreadsheet-Based
Decision Support
Systems**ISE 4804**
Ergo in System Design
*Prereq: Jr. standing***ISE 4853**
Data-Driven
Decision Making II**Must earn a B minimum in CS 1321/1323/1324 OR
CS 2334 to continue in any remaining CS courses.****CS 2413**
Data Structures
*Additional Prereq:
MATH1914/1823***ISE 4553**
Data-Driven
Decision Making I**ISE 4563**
Quality and
Reliability Engineering
*Additional Prereq:
ISE 3293***ENGR 2431**
Electrical Circuits
*Prereq: MATH 2924/2423
Co-req: PHYS 2524***Approved Elective**
Non-Western Culture ★**ISE 4223**
Fundamentals
of Engr Economy
*Prereq: MATH 2924/2423***CS 4513 or CS Elective**
*Prereq: CS 2413 &
CS 2813 or MATH 2513***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.