Name:

https://www.ou.edu/coe/academics/advising/degree-plans-and-flowcharts

Bachelor of Science in Industrial and Systems Engineering (Pre-Med Option B528) See pre-med advising for additional support. Summer 2024 through Spring 2025 - 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 Spring Fall Spring Fall Spring Fall Spring 15 Hours 19 Hours 15 Hours 15 Hours 17 Hours 18 Hours 18 Hours 15 Hours **ISE 3293 ISE 4563 PSC 1113** HIST 1483 or 1493 Applied Engineering **ISE 4553 MATH 1914 MATH 2924 MATH 2934** US 1492-1865 or Data-Driven Quality and American Federal Statistics Calculus I Calculus II Calculus III Prerea: Decision Making I Reliability Engr. Government US 1865-present MATH 2924/2433 **PHYS 2514 CEES 2153 ISE 3304** General Physics for **CEES 2113** ISE 4302 **ISE 4383** Approved Elective Mechanics of Design and Engr & Science Statics Systems Thinking Systems Evaluation Social Science Materials Manufacturing II Majors ISE 4623 ISE 4633 ENGL 1213 or **ISE 2303** ISE 4393 **ISE 2823** Deterministic Probabilistic **ISE 4663 ENGL 1113** EXPO 1213 Design and Systems Models Systems Analysis Enterprise Systems Models Capstone Design **English Composition** English Comp or Manufacturing Using Simulation Engineering Project Expository Writing Processes Add'l Prereg: ISE 2823 Prereq: ISE 3293 **ISE 4223 ENGR 1413** ISE 2311 **ISE 4113** Fundamentals **ISE 4333** Engineering Thinking Computer-Aided Spreadsheet-Based of Engr Economy Productions Orientation & Design and Dec Support Sys Prereq: Systems & Ops Core V FYE Graphics Lab MATH 2924/2423 ENGR 2002 CS 1313 or ↔ **ISE 4804 ISE 4853** CHEM 3152 Professional Skills Data-Driven Ergonomics in CS 1321/ 1323/ 1324 Organic Chemistry Approved Elective Prereq: System Design Decision Making II **Computer Science** Soph standing. Lab: Biological Artistic Forms Add'l Prereg: ENGL/EXPO 1213, Programming Emphasis Prerea: Jr. standing ISE 4553 ENGR 1413 \star **CHEM 1315 CHEM 3053** CHEM 3153 **BIOL 1124** General Chemistry I **CHEM 1415** Approved 3-hour Approved Elective Approved Elective Organic Chemistry I: Organic Chemistry II: Intro Biology: General Chemistry II **Biology Elective** World Culture Western Culture **Biological Emphasis** Biological Emphasis Molecule/Cell/Phys Prereq: MATH 1503 \ominus ☐ ★ 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. https://www.ou.edu/coe/cs/resources/links-forms Flowcharts, degree sheets, and elective sheets: ←--- ➤ Co-requisite. Prerequisite Shaded courses offered once per year. HS History Deficiency