Prerequisite Flowchart for Industrial Engineering

**Freshman Fall**
- ENGR 1211 Introduction to Engineering
- MATH 2413 Calculus I (Grade C or Better)
- CHEM 1411 General Chemistry I
- HIST 1301 U.S. History to 1865
- COMM 1311 Foundation of Communication
- UCCP 1101 First Year Seminar I

**Freshman Spring**
- ENGR 1312 Engineering Graphics I
- MATH 2414 Calculus II (Grade C or Better)
- PHYS 2425 University Physics I
- COSC 1330 Programming for Scientists, Engineers & Mathematicians
- ENGL 1302 Writing and Rhetoric
- UCCP 1102 First Year Seminar II

**Sophomore Fall**
- ENGR 2325 Statics
- MATH 2415 Calculus III
- PHYS 2426 University Physics II
- IEEN 2302 Economics
- MATH 2413
- CHEM 1411

**Sophomore Spring**
- ENGR 2460 Circuit Analysis
- MATH 3315 Differential Equations
- ENGR 3316 Thermodynamics
- PHYS 2425
- IEEN 3322 Materials Science

**Junior Fall**
- ENGR 3350 Manufacturing Processes
- IEEN 3330 Robotics and Automation
- MATH 3311 Linear Algebra
- MATH 3342 Applied Probability and Statistics
- POLS 2305 U.S. Government and Politics

**Junior Spring**
- ENGR 3320 Human Factors
- IEEN 3302 Operations Research
- Approved Technical Elective 3 sem. hrs.
- Language, Philosophy and Culture 3 sem. hrs.
- POLS 2306 State and Local Government

**Senior Fall**
- ENGR 4420 Engineering Lab Measurements
- IEEN 3324 Human Computer Interface
- Approved Technical Elective 3 sem. hrs.
- Creative Arts 3 sem. hrs.

**Senior Spring**
- IEEN 4330 Digital Systems Simulations
- ENGR 4370 Capstone Projects
- Approved Technical Elective 3 sem. hrs.
- Approved Technical Elective 3 sem. hrs.

**Senior Standing**
- IEEN 4312 Experimental Design and Analysis

Legend
- Prerequisite
- Corequisite
- Recommended Prerequisite
- Alternative Prerequisites (must have one of the two)