Industrial Engineering Undergraduate Curriculum Flow Chart, Fall 2021

**FIRST YEAR (32 HOURS)**
- INTRO 2 ENGR EF 105 1 Fa Sp
- COMP PROG COSC 111 3 Fa Sp
- INTRO TO IE IE 201 3 Fa Sp

**SECOND YEAR (33 HOURS)**
- ENGR ECON IE 405 3 E
- FAC PLAN IE 401/407 3 Fa
- PHYSICS PHYS 231 3 Fa Sp
- ENGR STAT IE 200 3 Fa Sp
- DIFF EQS MATH 231 3 Fa

**THIRD YEAR (30 Hours)**
- LEAN MFG IE 427 3 Sp
- QUALITY IE 300 3 Sp
- DOE IE 340 3 Fa
- SIMULATION IE 406/408 3 Fa
- ENGR SCI ELECTIVE 1 3 N/A

**FOURTH YEAR (34 Hours)**
- IE ELEC 1 3 n/a
- IE ELEC 2 3 n/a
- IE TECH ELEC 3 n/a
- INFO SYS IE 421/428 3 Sp

---

**Popular minors for IE Major**
- Reliability and Maintainability Engineering
- Business Administration
- Engineering Entrepreneurship
- Engineering Management

**Popular IE and Tech Electives**
- IE 430 – Supply Chain Engineering, Fall only
- IE 483 – Introduction to Reliability Engineering, Fall only
- IE 457 – Engineering Entrepreneurship, Fall only
- IE 452 – Project Planning and Organizational Mgmt, Fall only
- IE 423 – Industrial Safety, Spring only
- IE 484 – Introduction to Maintainability Engineering, Spring only
- IE 465 – Applied Data Science, Spring only

**Other Popular Tech Electives (often these have pre-reqs)**
- ENT 350 – Introduction to Entrepreneurship
- MARK 300 – Marketing and Supply Chain Mgmt
- MGT 300 – Organizational Mgmt
- FINC 300 – Fundamentals of Finance
- DSGN 430 – Design Thinking and Innovation
- 400-level ENT classes (Entrepreneurship)
- 300-level ECON classes (Economics)
- 300 or 400-level engineering classes from other disciplines

**Popular Engineering Science Electives**
- ECE 301 – Circuits and Electro Mechanical Components
- MSE 201 – Introduction to Materials Science and Engineering
- ME 202 – Engineering Mechanics
- and IE 130 – Survey of Engineering Entrepreneurship
- or EF 230 – Computer Solution of Engineering Problems
- ME 231 – Dynamics
- ME 331 – Thermodynamics

Updated May 25, 2021