Industrial Engineering Undergraduate Curriculum Flow Chart, Fall 2023

First Year (32 Hours)
- 15 Hours
  - Intro 2 Engr EF 105
  - Comp Prog Cosc 111
- 17 Hours
  - Phys 4 Engrs EF 151/157
  - Phys 4 Engrs EF 152/158
- 18 Hours
  - Calculus I Math 141
  - Calculus II Math 142
  - Math 130
  - Eng Comp Engl 101
  - Eng Comp Engl 102
  - Expended Perspectives Elective
  - Global Citizenship - US Elective
  - Economics Econ 201
  - Gen Chem Chem 122 & 123
  - Mat Alg Math 200
  - Leadership I IE 250

Sophomore
- 15 Hours
  - Intro to IE IE 201
  - Engr Econ IE 405
  - Engr Stat IE 200
  - Physics Phys 231
  - Diff Eqs Math 231
  - Gen Chem Chem 122 & 123
  - Math 241
  - Leadership I IE 250

Junior
- 15 Hours
  - Fac Plan IE 401/407
  - Prod Sys IE 402
  - Doe IE 340
  - Simul IE 406/408
  - Op Res I IE 301

Senior
- 15 Hours
  - Lean Mfg IE 427
  - Quality05 IE 300
  - Engr Sci Elective 1
  - Engr Sci Elective 2
  - Capstone I IE 404
  - Capstone II IE 422
  - Arts & Hum Elective

Global Citizenship
- 3 Hours
  - Global Elective

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

Popular IE and Tech Electives
- ENGR ECON IE 405
- Phys 4 Engrs EF 151/157
- Calculus I Math 141
- Calculus II Math 142
- Math 130
- Expended Perspectives Elective
- Global Citizenship - US Elective
- Economics Econ 201
- Gen Chem Chem 122 & 123
- Mat Alg Math 200
- Leadership I IE 250

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
- DATA 301 – Data Stewardship and Ethics
- 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
- DATA 201 – Data Knowledge and Discovery
- MGT 300 – Organizational Mgmt
- FINC 300 – Fundamentals of Finance
- DSGN 430 – Design Thinking and Innovation
- DATA 301 – Data Stewardship and Ethics
- 400-level ENT classes (Entrepreneurship)
- 300-level ECON classes (Economics)
- 300 or 400-level engineering classes from other disciplines

Updated May 9, 2022