Industrial Engineering Undergraduate Curriculum Flow Chart, Fall 2019

**First Year (33 Hours)**
- INTRO 2 ENGR EF 105 (1 Fa Sp)
- COMP PROG CSC 102 (4 Fa Sp)
- INTRO TO IE IE 201 (3 Fa Sp)
- ENGR ECON IE 405 (3 E)
- FAC PLAN IE 401/407 (3 Fa)
- LEAN MFG IE 427 (3)
- 1IE ELEC 1 (3 n/a)

**Second Year (33 Hours)**
- PHYS 4 ENGRS EF 151/157 (4 Fa Sp)
- PHYS 4 ENGRS EF 152/158 (4 Fa Sp)
- WK DESIGN IE 202 (3 Fa Sp)
- PHYSICS PHYS 231 (3 E)
- PROD SYS IE 402 (3 Fa)
- QUALITY IE 300 (3)
- 2IE TECH ELEC (3 n/a)

**Third Year (31 Hours)**
- CALCULUS I MATH 141 (4 E)
- CALCULUS II MATH 142 (4 E)
- CALCULUS III MATH 241 (4 E)
- ENGL COMP ENGL 101 (3 E)
- ENGLCOMP ENGL 102 (3 E)
- ECONOMICS ECON 201 (4 E)
- GEN CHEM CHEM 120 (4 E)
- MATRIX ALG MATH 200 (4 E)
- OP RES I IE 301 (3 Fa)
- OP RES II IE 310/317 (3 Sp)
- HUM FACT IE 304 (3)
- SIMULATION IE 406/408 (3)
- 3IE TECH ELEC (3 n/a)

**Fourth Year (32 Hours)**
- LEADERSHIP I IE 250 (1 Fa)
- LEADERSHIP II IE 350 (1 Fa)
- LEADERSHIP III IE 450 (1 Fa)
- Leadership I IE 250 (1 Fa)
- Leadership II IE 350 (1 Fa)
- Leadership III IE 450 (1 Fa)
- ENGL 102/132/290/298 (3 E)

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1. Chosen from University General Education List. An ethics-related philosophy course is preferred for one of the Arts and Humanities electives.
2. Chosen from IE 423, IE 430, IE 451, IE 457, IE 483, IE 484, IE 493, IE 494, IE 495. The same course may not be used to count for both the IE technical elective and the IE elective.
3. Chosen from AE 341 or AE 347; BUAD 410; DSGN 430; ECE 255, ECE 463; ECON 311, ECON 313, ECON 322, ECON 331, ECON 333, ECON 351; 3 hours of EF 333; ENT 350, ENT 415, ENT 425, ENT 451, ENT 460, ENT 492; FINC 300, FINC 425, FINC 455; IE 423, IE 430, IE 451, IE 457, IE 483, IE 484; INSC 310; MGT 300; MGT 302; MSE 340 or MSE 347; MSE 360 or MSE 367, MSE 390 or MSE 397, MSE 405; ME 321, ME 363 or ME 367, ME 365, ME 366, ME 405; NE 342 or NE 347; RCS 411. Some courses may require a prerequisite or corequisite that is not part of the IE program.
4. Chosen from ECE 301; ME 331; MSE 201 or MSE 207; ME 231; ME 202 and (EF 130 or EF 230)

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Corequisite course prerequisite course

Course name Semester offered
Course number Credit Hours
HUM FACT IE 304 3 Fa

ISE UG Curriculum Flow Chart, Effective Fall 2017
Students Started their programs before 2017 may use earlier curriculum at catalog.utk.edu