IE Curriculum Flow Chart 2019-2020

Fall 1st Year
ENGR:1100 (3)
Intro. Eng. Prob. Solve
RHET:1000 (4)
Accel. Rhetoric
MATH:1550 (4)
Eng. Math I
ENGR:1000 (1)
1st Yr. Seminar
CHEM:1110 (4)
Chem I

Spring 1st Year
ENGR:1300 (3)
Intro. Eng. Computing
MATH:2550 (2)
Eng. Math III
MATH:1560 (4)
Eng. Math II
(3) GEC I
PHYS:1611 (4)
Physics I

Fall 2nd Year
MATH:2560 (3)
Eng. Math IV
ENGR:2120 (3)
EF II Circuits
PHYS:1612 (4)
Physics II*
ENGR:2110 (2)
EF I Statics
ENGR:2130 (3)
EF III Thermo
PSY:1001 (3)
Psych.
ISE:2000 (0)
IE Soph. Seminar

Spring 2nd Year
ISE:3500 (3)
Info. Sys. Design
ISE:2500 (3)
Eng. Econ.
STAT:2020 (3)
Prob. & Stat.
(3) EFA I
ENGR:2720 (3)
Material Science

Fall 3rd Year
ISE:3700 (3)
Operations Research
ISE:3610 (3)
Stochastic Modeling
ENGR:2760 (3)
Design for Manufact.
ISE:3400 (3)
Human Factors
ISE:3500 (3)
Info. Sys. Design

Spring 3rd Year
ISE:3750 (3)
Digital Sys. Sim.
ISE:3300 (3)
Manufact. Systems
ISE:3660 (3)
Data Analyt. with R
ISE:3450 (3)
Ergonom.
ISE:3000 (3)
Profess. Seminar

Fall 4th Year
ISE:3350 (4)
Process Eng.**
(3) EFA III
ISE:3600 (3)
Quality Control
(3) EFA IV

Spring 4th Year
IE Systems Elective (3)
(3) EFA V
ISE:4600 (4)
IE Design Project
(3) EFA VI
(3) EFA VII
ISE:3000 (0)
Profess. Seminar

Notes:
Number in parentheses after the course number indicates the number of credits.
Heavy outline indicates that course is offered only once per year in the indicated semester.
Systems Elective can include ISE:3149, ISE:4172, ISE:4175, ISE:4550, ISE:4900 or ENGR:2730. Alternatively, students can take a 5000 or above level Industrial Engineering course (3 sh), with the permission of the instructor, to fulfill this Systems Elective requirement.
* Effective fall 2019 PHYS:1612 is a 4 SH course.
** Effective fall 2021 ISE:3350 is a 3 SH course.