Industrial Engineering
2020-2021 Catalog
122 Total Credits

First Year

Semester 1

3	I E 148 (Engr Problem Solving)
3	SSH Elective
4	Math 165 (Calculus I)
4	Chem 167 (Chem for Engrs)
R	Engr 101 (Engr Orientation)

14 Total Credits

Semester 2

4	Math 166 (Calculus II)
5	Phys 221 (Classical Physics I)
3	Engl 150 (Critical Think & Comm)
3	SSH Elective
R	I E 101 (I E Profession)
1	Lib 160 (Library)

16 Total Credits

Sophomore Year

Semester 3

4	Math 265 (Calculus III)
3	I E 248 (Manufacturing Processes)
3	Mat E 273 (Prin of Materials E)
4	Phys 232 (Classical Physics II)
1	Phys 232L (Classical Physics II lab)
3	Engl 250 (WOVE Comp)

18 Total Credits

Semester 4

4	Math 267 (Differential Equations)
4	Stat 231 (Engr Probability & Inference)
3	I E 271 (Applied Ergonomics)
3	I E 222 (Methods for System Imprvmts)

14 Total Credits

Junior Year

Semester 5

3	I E 305 (Engineering Economics)
3	I E 341 (Production Systems)
3	I E 312 (Optimization)
3	CE 274 (Statics)
3	Sp Cm 212 (Public Speaking)

15 Total Credits

Semester 6

3	I E 348 (Solidification Processes)
3	I E 361 (Quality Assurance)
3	Engineering Topic Elective
3	SSH Elective
2	E E 442 (Circuits & Instruments)

14 Total Credits

Senior Year

Semester 7

4	I E 413 (Stochastic Modeling)
3	Engl 314 (Tech Communication)
3	M E 231 (Thermodynamics)
3	Focus Elective
3	SSH Elective

16 Total Credits

Semester 8

3	I E 441 (IE Design)
3	I E 448 (Manufacturing Systems)
3	Focus Elective
3	Management Elective
3	Engineering Topic Elective

15 Total Credits

Shading indicates Basic Program courses

Compiled from official ISU catalog 4-year plans (catalog.iastate.edu/undergraduatemajors-alpha/)