

Industrial Engineering Catalog 2025

Fall 15 hours	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU Math 132 Prereq: Math 131 Math 141 Prereq: ACT Math 28 or SAT Math 600	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	EF 142 or 151 or 157 (4) (E) FA, SP EF 142 Prereq: EF 141 with C- or better and Math 131 EF 142 Coreq: Math 132 EF 151 Coreq: 141/147 or higher and EECS majors COSC 101/102	EF 105 (1) FA, SP Coreq: EF 152 or 158	English 101 or 131 (3) FA, SP, SU 101 Standard: 131 English as Second Language	
Spring 17 hours	Math 142 or 148 (4) (QR) FA, SP, SU Prereq: Math 132 or 141 or 147	Vol Core (3) FA, SP, SU Global Citizenship United States (GCUS)	EF 152 or 158 (4) (NS and E) FA, SP, SU Prereq: EF 142/151/157 with C or higher Coreq: Math 142 or 148 and EF 105 or COSC 101 or 102	COSC 111 (3) FA, SP	English 102 or 112 or 298 or 132 (3) FA, SP, SU 102 Prereq 101; 112 Prereq is AP 101 and Test Scores; 298 Prereq University Honors only; 132 Prereq 131 ESL.	
Fall 17 hours	IE 200 (3) FA, SP Prereq: Math 142 or 148	IE 201 (3) (OC) (New WC???) FA Prereq: Sophomore in Industrial	Physics 231 (3) FA, SP, SU Prereq: Phys 135 or EF 151 and 152 Coreq: Math 142 or 148	Math 241 or 247 (4) FA, SP, SU Prereq: Math 142 or 148	ECON 201 or 207 (4) FA, SP, SU Vol Core Social Science (SS)	
Spring 15 hours	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU Prereq: Math 119, recommended background in Math 131	Math 231 or 237 (3) FA, SP, SU Prereq: Math 142 or 148	Math 200 (2) FA, SP Cannot receive credit if previous C or better in Math 251 or 257	IE 202 (3) FA, SP Prereq: EF 152 or 157 Coreq: IE 200 or Stats 251	IE 405 (3) FA, SP, SU Prereq: Engineering or Biosystems major	
Fall 15 hours	IE 301 (3) FA Prereq: Math 200 or 251 and Math 241/247	IE 304 (3) FA Minimum student level — junior	IE 340 (3) FA Prereq: IE 200	IE 401 or 407 (3) FA Prereq: IE 202 Coreq: IE 405	IE 402 (3) FA Prereq: IE 202	
Spring 15 hours	Engineering Science Elective**(3)	IE 300 (3) SP Prereq: IE 200 or Stats 251	IE 310 or 317 (3) SP Prereq: IE 200 or Stats 251	IE 406 or 408 (3) SP Prereq: IE 200 or Stats 251 Coreq: IE 310 or 317	IE 427 (3) SP, SU Coreq: IE 406 or 408	
Fall 17 hours	IE 404 (2) (E) FA, SP Coreq: IE 401, 405, and 427	Engineering Science Elective**(3)	Technical Elective (3) FA, SP Petition required in advance	**Industrial Elective (3) FA,SP Petition required in advance	**Industrial Elective (3) FA,SP Petition required in advance	Vol Core (3) FA, SP, SU Arts and Humanities (AH)
Spring 18 hours	IE 422 (3) (AOC) FA, SP Prereq: IE 201, 404, and English 102 or 132 or English 290 or 298	Technical Elective (3) FA, SP Petition required in advance	Industrial Elective (3) FA, SP Petition required in advance	Vol Core (3) FA, SP, SU Global Citizenship International (GCI)	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	IE 421 or 428 (3) SP Minimum level- Junior Industrial majors only.

Technical Electives choose from DATA 301; DSGN 430; ECE 255, ECE 463; ECON 311, ECON 313, ECON 322, ECON 331, ECON 333, ECON 351; 3 hours of EF 333 or IE 350 or IE 450; ENT 350, ENT 415, ENT 425, ENT 451, ENT 460, ENT 492; FINC 300; IE 423, IE 430, IE 452, IE 457, IE 465, IE 483, IE 484, IE 493, IE 494, IE 495; MARK 300; MGT 300; MSE 302, MSE 340 or MSE 347, MSE 360 or MSE 367, MSE 390 or MSE 397, MSE 405; ME 321, ME 365, ME 366, ME 367; NE 342 or NE 347.
Some courses may require a prerequisite or corequisite that is not part of the IE program.

**Industrial Electives chosen from IE 423, IE 430, IE 444, IE 452, IE 457, IE 465, IE 483, IE 484, IE 493, IE 494, IE 495. The same course may not be used to count for both Technical Elective and Industrial Elective.

***Engineering Science Electives chosen from DATA 201; ECE 301; EF 130 or EF 230/237; ME 202, ME 231, ME 331; MSE 201 or 207.

Students also have opportunities for an Honors Concentration and/or a five year BS/MS program. See the Undergraduate Catalog for details and requirements.

Volunteer Core courses highlighted in light orange.