

Industrial Engineering Catalog 2021

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| Fall 15 hours | Math 141 or 147 (4) FA, SP, SU Prereq- Math ACT 28 or Math SAT 660 | Gen Ed (3) FA, SP, SU Social Science | EF 151 or 157 (4) FA, SP Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102 | EF 105 (1) FA, SP Coreq- EF 151 or 157 | English 101/118 or 198 or 131 (3) FA, SP, SU 101 Regular; 118 Honors; 198 Chancellor Honors Only; 131 English as Second Language | |
| Spring 17 hours | Math 142 or 148 (4) FA, SP, SU Prereq- Math 132 or 141 or 147 | Gen Ed (3) FA, SP, SU Cultures and Civilizations | EF 152 or 158 (4) FA, SP, SU Prereq- EF 142/151/157 with C or higher Coreq- Math 142 or 148 | COSC 111 (3) FA, SP | English 102 or 290 or 298 or 132 (3) FA, SP, SU 102 Prereq 101 or 118; 290 Prereq AP 101 credit 298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL | |
| Fall 18 hours | IE 250 (1) FA Industrial majors only; sophomores Prereq- English 102 or 132 or 290 or 298 | IE 200 (3) FA, SP Prereq- Math 142 or 148 | IE 201 (3) 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 Social Science |
| Spring 15 hours | Chem 122(3) and 123(1) or 128 (4) 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) 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 | Gen Ed (3) FA, SP, SU Arts and Humanities |
| Spring 17 hours | IE 422 (2) (OC and WC) FA, SP Prereq: IE 404; 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 | Gen Ed (3) FA, SP, SU Cultures and Civilizations | Gen Ed (3) FA, SP, SU Arts & Humanities | IE 421 or 428 (3) SP Minimum level- Junior Industrial majors only. |

***Technical Electives chosen from** BUAD 361; DSGN 430; ECE 255, ECE 302, ECE 463; ECON 311 *, ECON 313, ECON 322*, ECON 331, ECON 333, ECON 351*;
ENT 350, ENT 415, ENT 425, ENT 451, ENT 460, ENT 492; FINC 300, IE 350, IE 423 , IE 430, IE 450, IE 452, IE 457, IE 465, IE 483 , IE 484 ; IE 493, IE 494, IE 495, INSC 310 , MARK 300 *; MGT 300;
MSE 302 , MSE 340 or 347 , MSE 360 or 367, MSE 390 or 397 , MSE 405 ; ME 321 , ME 367, ME 365 , ME 366 ; NE 342 or 347; 3 credit hours of EF 333.
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 452, IE 457, 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 ECE 301; MSE 201 or 207; ME 202 AND (EF 130 or EF 230); ME 231; ME 331.

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