

## Industrial Engineering Catalog 2019

Fall 15 hours	<b>Math 141 or 147 (4) FA, SP, SU</b> Prereq- Math 130 or Math ACT 28 or Math SAT 630	<b>Gen Ed (3) FA, SP, SU</b> Social Science	<b>EF 151 or 157 (4) FA, SP</b> Coreq- Math 141 or 147 and EF 105	<b>EF 105 (1) FA, SP</b> Coreq- EF 151 or 157	<b>English 101/118 or 198 or 131 (3) FA, SP, SU</b> 101 Regular; 118 Honors; 198 Chancellor Honors Only; 131 English as Second Language	
Spring 18 hours	<b>Math 142 or 148 (4) FA, SP, SU</b> Prereq- Math 141 or 147	<b>Gen Ed (3) FA, SP, SU</b> Cultures and Civilizations	<b>EF 152 or 158 (4) FA, SP, SU</b> Prereq- EF 151 or 157 Coreq- Math 142 or 148	<b>CS 102 (4) FA, SP</b> Coreq- Math 141 or 147	<b>English 102 or 290 or 298 or 132 (3) FA, SP, SU</b> 102 Prereq 101 or 118; 290 Prereq AP 101 credit 298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL	
Fall 18 hours	<b>IE 250 (1) FA</b> Industrial majors only Minimum level-sophomore	<b>IE 200 (3) FA, SP</b> Prereq- Math 142 or 148	<b>IE 201 (3) FA, SP</b> Prereq- Sophomore in Industrial	<b>IE 202 (3) FA, SP</b> Prereq- EF 152 or 157 Coreq-IE 200 or Stats 251	<b>Math 241 or 247 (4) FA, SP, SU</b> Prereq- Math 142 or 148	<b>ECON 201 or 207 (4) FA, SP, SU</b> Social Science
Spring 15 hours	<b>Chem 120 or 128 (4) FA, SP, SU</b> Prereq-Math 119; recommended background Math 130	<b>Math 231 or 237 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Math 200 (2) FA, SP</b> Cannot receive credit if previous C or better in Math 251 or 257	<b>Physics 231 (3) FA, SP, SU</b> Prereq- Phys 135 or EF 151 and 152 Coreq- Math 142 or 148	<b>IE 405 (3) FA, SP, SU</b> Prereq- Engineering or Biosystems major	
Fall 16 hours	<b>IE 350 (WC) (1) FA</b> Prereq-ENGL 102, 132, 290, or 298 Minimum level - Junior; IE majors	<b>IE 301 (3) FA</b> Prereq- Math 200 or 251 and Math 241/247	<b>IE 304 (3) FA</b> Minimum student level — junior	<b>IE 340 (3) FA</b> Prereq- IE 200	<b>IE 401 or 407 (3) FA</b> Prereq- IE 202 Coreq- IE 405	<b>IE 402 (3) FA</b> Prereq- IE 202
Spring 15 hours	<b>Engineering Science Elective***</b> 3 hours	<b>IE 300 (3) SP</b> Prereq- IE 200 or Stats 251	<b>IE 310 or 317 (3) SP</b> Prereq- IE 200 or Stats 251	<b>IE 406 or 408 (3) SP</b> Prereq- IE 200 or Stats 251 Coreq- IE 310 or 317	<b>IE 427 (3) SP</b> Coreq- IE 406 or 408	
Fall 15 hours	<b>IE 450 (1) FA</b> Industrial majors only Minimum level- senior	<b>IE 404 (2) FA, SP</b> Coreq- IE 401, 405, and 427	<b>Engineering Science Elective***</b> 3 hours	<b>*Technical Elective (3) FA, SP</b> Petition required in advance	<b>**Industrial Elective (3) FA,SP</b> Petition required in advance	<b>Gen Ed (3) FA, SP, SU</b> Arts and Humanities
Spring 17 hours	<b>IE 422 (2) (OC and WC) FA, SP</b> Prereq: IE 404; English 102 or 132 or English 290 or 298	<b>*Technical Elective (3) FA, SP</b> Petition required in advance	<b>**Industrial Elective (3) FA, SP</b> Petition required in advance	<b>Gen Ed (3) FA, SP, SU</b> Cultures and Civilizations	<b>Gen Ed (3) FA, SP, SU</b> Arts & Humanities	<b>IE 421 or 428 (3) SP</b> Minimum level- Junior Industrial majors only.

\***Technical Electives chosen from** AE 341 or 347 ; BUAD 410 \*; DSGN 430; ECE 255, ECE 302, ECE 463; ECON 311 \*, ECON 312 \*, ECON 313, ECON 322\*, ECON 331, ECON 333, ECON 351\*; ENT 350, ENG 415, ENT 420, 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 , INSC 451 \*, MARK 300 \*; MGT 300; MSE 302 , MSE 340 or 347 , MSE 360 or 367 , MSE 390 or 397 , MSE 405 ; ME 321 , ME 363 or 367 , ME 365 , ME 366 ,ME 405 ; NE 342 or 347; RCS 411; 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 451, 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 331; ME 231.

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