

## Materials Science and Engineering Catalog 2020

Fall 16 hours	<b>Chem 120 or 128 (4) FA, SP, SU</b> Prereq-Math 119, recommended background in Math 131	<b>Math 141 or 147 (4) FA, SP, SU</b> Prereq- Math ACT 28 or Math SAT 660	<b>EF 151 or 157 (4) FA, SP</b> Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102	<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 17 hours	<b>MSE 110 or 117 (3) SP</b> Prereq-Chem 120 or 128	<b>MSE 120 or 127 (3) SP</b>	<b>Math 142 or 148 (4) FA, SP, SU</b> Prereq- Math 132 or 141 or 147	<b>EF 152 or 158 (4) FA, SP, SU</b> Prereq-EF 151/157 with C or higher Coreq- Math 142 or 148	<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 15 hours	<b>MSE 201 or 207 (3) FA, SP, SU</b> Prereq- Chemistry 120 or 128	<b>MSE 210 (3) FA</b> Coreq- MSE 201	<b>Math 241 or 247 (4) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Physics 231 (3) FA, SP, SU</b> Prereq- Phys 135 or EF 151 and 152 Coreq- Math 142 or 148	<b>EF 230 (2) FA, SP</b> Prereq- EF 105 or CS 102 Coreq- EF 152/158
Spring 17 hours	<b>MSE 220 (3) SP</b>	<b>MSE 250 (4) SP</b> Prereq- Math 142/148, EF 230 Coreq-Math 231 and MSE 201	<b>MSE 260 (4) SP</b> Prereq- EF 152/158, Math 241/ 247 MSE 201/207, Chem 130/138 or MSE 110	<b>Math 231 or 237 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>Gen. Ed. (3) FA, SP, SU</b> Culture and Civilizations
Fall 15 hours	<b>MSE 300 (2) FA</b> Prereq- MSE 201/207 with grades of C or better and 210	<b>MSE 301 (3) FA</b> Prereq- Math 142/148 and 231; EF 230	<b>MSE 340 or 347 (4) FA</b> Prereq- MSE 201	<b>MSE 360 or 367 (4) FA</b> Prereq- MSE 201	<b>Math 200 (2) FA, SP</b> Cannot receive credit if previous C or better in Math 251 or 257
Spring 16 hours	<b>MSE 302 (3) SP</b> Prereq- MSE 201	<b>MSE 304 (WC) (3) SP</b> Prereq- MSE 250, 260, 300, 340, 360 and ENGL 102, 132, 290, or 298	<b>MSE 350 or 357 (3) SP</b> Prereq- MSE 201	<b>MSE 390 or 397 (4) SP</b> Prereq- MSE 201	<b>Gen. Ed. (3) FA, SP, SU</b> Arts and Humanities
Fall 15 hours	<b>**MSE 4XX (3) FA, SP, SU</b> see below	<b>MSE 480 (3) FA</b> Prereq- MSE 201; level junior	<b>Technical Elective* (3) FA, SP, SU</b> Petition required in advance	<b>Gen. Ed. (3) FA, SP, SU</b> Culture & Civilizations	<b>Gen. Ed. (3) FA, SP, SU</b> Social Science
Spring 15 hours	<b>**MSE 4XX (3) FA, SP, SU</b> see below	<b>Technical Elective* (3) FA, SP, SU</b> Petition required in advance	<b>MSE 489 (OC) (3) SP</b> Prereq- MSE 304 with C or better, 340/347, 360 or 367, 390 or 397, and 480	<b>Gen. Ed. (3) FA, SP, SU</b> Social Science	<b>Gen. Ed. (3) FA, SP, SU</b> Arts and Humanities

\*Technical electives: BCMB 230 ; BIOL 150 or 158, BIOL 159, BIOL 160 or 168 ; BME 409 ; CHEM 260, CHEM 360; CBE 475 ; ECE 301; EF 333; ENGL 360; GEOL 310; MATH 475; PHYS 232; any MSE course not already required ; other 300 or 400 level science or engineering courses as approved by academic advisor and department head.

\*\*MSE 4XX Electives- Materials Science and Engineering electives: 408, 410, 415, 421 , 425, 432, 450, 451, 455, 457, 460, 466, 474, 483, 484 , 485, 486, 494 , 495, 496R.

### MSE Graduation Requirements

Graduation in materials science and engineering requires a minimum grade point average of 2.0 for all departmental courses taken at UT, Knoxville. No more than seven (7) credit hours of MSE courses in which a C- or lower is the highest grade earned may be counted toward graduation. Students are strongly encouraged to meet with their advisor every semester.

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