

Materials Science and Engineering Catalog 2021

Fall 16 hours	Chem 122(3) and 123(1) or 128 (4) FA, SP, SU Prereq- Math 119; recommended background in Math 131	Math 141 or 147 (4) FA, SP, SU Prereq- Math ACT 28 or Math SAT 600	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	MSE 110 or 117 (3) SP Prereq- Chem 122 and 123 or 128	MSE 120 or 127 (3) SP	Math 142 or 148 (4) FA, SP, SU Prereq- Math 132 or 141 or 147	EF 152 or 158 (4) FA, SP, SU Prereq- EF 142/151/157 with C or higher Coreq- Math 142 or 148	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 15 hours	MSE 201 or 207 (3) FA, SP, SU Prereq- Chemistry 122 and 123 or 128	MSE 210 (3) FA Coreq- MSE 201	Math 241 or 247 (4) FA, SP, SU Prereq- Math 142 or 148	Physics 231 (3) FA, SP, SU Prereq- Phys 135 or EF 151 and 152 Coreq- Math 142 or 148	EF 230 (2) FA, SP Prereq- EF 105 or CS 102 Coreq- EF 152/158
Spring 17 hours	MSE 220 (3) SP	MSE 250 (4) SP Prereq- Math 142/148, EF 230 Coreq- Math 231 and MSE 201	Gen. Ed. (3) FA, SP, SU Culture and Civilizations	Math 231 or 237 (3) FA, SP, SU Prereq- Math 142 or 148	MSE 260 (4) SP Prereq- MSE 201/207 and EF 152/158 Coreq- Chem 132/133/138 or MSE 110/117 and Math 241/247
Fall 15 hours	MSE 300 (2) FA Prereq- MSE 201/207 with grades of C or better and 210	MSE 301 (3) FA Prereq- Math 142/148 and 231; EF 230	MSE 340 or 347 (4) FA Prereq- MSE 201	MSE 360 or 367 (4) FA Prereq- MSE 201	Math 200 (2) FA, SP Cannot receive credit if previous C or better in Math 251 or 257
Spring 16 hours	MSE 302 (3) SP Prereq- MSE 201	MSE 304 (WC) (3) SP Prereq- MSE 250, 260, 300, 340, 360 and ENGL 102, 132, 290, or 298	MSE 350 or 357 (3) SP Prereq- MSE 201	MSE 390 or 397 (4) SP Prereq- MSE 201	Gen. Ed. (3) FA, SP, SU Arts and Humanities
Fall 15 hours	**MSE 4XX (3) FA, SP, SU see below	MSE 480 (3) FA Prereq- MSE 201; level junior	Technical Elective* (3) FA, SP, SU Petition required in advance	Gen. Ed. (3) FA, SP, SU Culture & Civilizations	Gen. Ed. (3) FA, SP, SU Social Science
Spring 15 hours	**MSE 4XX (3) FA, SP, SU see below	Technical Elective* (3) FA, SP, SU Petition required in advance	MSE 489 (OC) (3) SP Prereq- MSE 304 with C or better, 340/347, 360 or 367, 390 or 397, and 480	Gen. Ed. (3) FA, SP, SU Social Science	Gen. Ed. (3) FA, SP, SU 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; MSE 457, MSE 483, MSE 484, MSE 485, MSE 486; any MSE course not already required ; PHYS 232; 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: 405, 408, 410, 415, 421, 425, 432, 443, 450, 451, 455, 460, 466, 474, 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.