

Materials Science and Engineering Catalog 2022

Fall 16 hours	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU	EF 142 or 151 or 157 (4) (EI) FA, SP	EF 105 (1) FA, SP	English 101/118 or 198 or 131 (3) FA, SP, SU
	Prereq-Math 119; recommended background in Math 131	Prereq- Math 141 is ACT Math 28 or SAT Math 660 Prereq-Math 132 is Math 131	Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102	Coreq- EF 151 or 157	101 Regular; 118 Honors; 198 Chancellor Honors Only; 131 English as Second Language
Spring 17 hours	MSE 110 or 117 (3) SP	MSE 120 or 127 (3) SP	Math 142 or 148 (4) (QR) FA, SP, SU	EF 152 or 158 (4) (NS and EI) FA, SP, SU	English 102 or 290 or 298 or 132 (3) FA, SP, SU
	Prereq-Chem 122 and 123 or 128		Prereq- Math 132 or 141 or 147	Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148	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	MSE 210 (3) FA	Math 241 or 247 (4) FA, SP, SU	Physics 231 (3) FA, SP, SU	EF 230 (2) FA, SP
	Prereq- Chemistry 122 and 123 or 128	Coreq- MSE 201 or 207	Prereq- Math 142 or 148	Prereq- Phys 135/137 or EF 151/157 or 152/158 Coreq- Math 142 or 148	Prereq- EF 105 or CS 102 Coreq- EF 152/158
Spring 17 hours	MSE 220 (3) (OC) SP	MSE 250 (4) SP	Vol Core (3) FA, SP, SU	Math 231 or 237 (3) FA, SP, SU	MSE 260 (4) SP
		Prereq- Math 142/148, EF 230 Coreq-Math 231 or 237 and MSE 201 or 207	Global Citizenship United States (GCUS)	Prereq- Math 142 or 148	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	MSE 301 (3) FA	MSE 340 or 347 (4) FA	MSE 360 or 367 (4) FA	Math 200 (2) FA, SP
	Prereq- MSE 201/207 with grades of C or better and 210	Prereq- Math 142/148 and 231/237; EF 230	Prereq- MSE 201 or 207	Prereq- MSE 201 or 207	Cannot receive credit if previous C or better in Math 251 or 257
Spring 16 hours	MSE 302 (3) SP	MSE 304 (WC) (3) SP	MSE 350 or 357 (3) SP	MSE 390 or 397 (4) SP	Vol Core (3) FA, SP, SU
	Prereq- MSE 201 or 207	Prereq- MSE 250, 260, 300, 340/347, 360/367 and ENGL 102, 132, 290, or 298	Prereq- MSE 201 or 207 or Physics 232 or Physics 250	Prereq- MSE 201 or 207	Arts and Humanities (AH)
Fall 15 hours	**MSE 4XX (3) FA, SP, SU	MSE 480 (3) FA	Technical Elective* (3) FA, SP, SU	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU
	see below	Prereq- MSE 201 or 207; level junior	Petition required in advance	Global Citizenship International (GCI)	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS
Spring 15 hours	**MSE 4XX (3) FA, SP, SU	Technical Elective* (3) FA, SP, SU	MSE 489 (AOC and EI) (3) SP	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU
	see below	Petition required in advance	Prereq- MSE 304 with C or better, 340 or 347, 360 or 367, 390 or 397, and 480	Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	Social Science (SS)

*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, 475, 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.

Volunteer Core courses highlighted in light orange.