Materials Science and Engineering Catalog 2015 NANOMATERIALS CONCENTRATION

ill	English 101 or 118 (3) FA, SP, SU	Chem 120 or 128 (4) FA, SP, SU	Math 141 or 147 (4) FA, SP, SU	EF 151 or 157 (4) FA, SP	EF 105 (1) FA, SP	
hours		Math 130	Prereq- Math 130 or Math ACT 28	Coreq- Math 141 or 147 and	Coreq- EF 151 or 157	
			or Math SAT 630	EF 105		
ing	English 102 (3) FA, SP, SU	Chem 130 or 138 (4) FA, SP, SU	Math 142 or 148 (4) FA, SP, SU	EF 152 or 158 (4) FA, SP	MSE 101 (1) SP	_
ours	Prereq- English 101 or 118	Prereq- Chem 120 or 128	Prereq- Math 141 or 147	Prereg- EF 151 or 157		
10 110013				Coreq Math 142 or 148		
	MSE 201 (3) FA, SP, SU	MSE 210 (1) FA	Math 241 or 247 (4) FA, SP, SU	Physics 231 (3) FA, SP, SU	Econ 201 or 207 (4) FA, SP, SU	EF 230 (2) FA, SP
ours	Prereq- Chemistry 120 or 128	Coreq- MSE 201	Prereq- Math 142 or 148	Coreq- Math 142 or 148	Social Science	Prereq- EF 152 or 158
				I		
ing	MSE 290 (1) SP	Math 200 (2) FA, SP	Math 231 (3) FA, SP, SU	Physics 232 (4) FA, SP, SU	MSE 250 (3) SP	MSE 260 (3) SP
nours		Cannot receive credit if previous C or	Prereq- Math 142 or 148	Prereq- Physics 231	Prereq- Math 142 or 148, EF 230 and	Prereq- EF 152 /158, Chem 130/138
		better in math 251 or 257		Coreq- Math 241 or 247	Coreq- Math 231 and MSE 201	and Math 241/ 247; MSE 201
	MSE 300 (1) FA	MSE 301 (3) FA	MSE 320 (3) FA	MSE 340 or 347 (3) FA	MSE 360 or 367 (3) FA	Gen. Ed. (3) FA, SP, SU
	MSE 300 (1) FA Prereq- MSE 201 and 210		MSE 320 (3) FA Prereq- MSE 201 and 260	•		Gen. Ed. (3) FA, SP, SU Arts and Humanities
ours		MSE 301 (3) FA	.,	MSE 340 or 347 (3) FA	MSE 360 or 367 (3) FA	
ing	Prereq- MSE 201 and 210	MSE 301 (3) FA Prereq- Math 142/148, 231; EF 230	Prereq- MSE 201 and 260	MSE 340 or 347 (3) FA Prereq- MSE 201	MSE 360 or 367 (3) FA Prereq- MSE 201	Arts and Humanities
ing	Prereq- MSE 201 and 210 MSE 304 (1) SP	MSE 301 (3) FA Prereq- Math 142/148, 231; EF 230 MSE 390 or 397 (3) SP	MSE 201 and 260 MSE 370 (3) SP Prereq- MSE 340 and 360 and	MSE 340 or 347 (3) FA Prereq- MSE 201 MSE 302 (3) SP	MSE 360 or 367 (3) FA Prereq- MSE 201 MSE 350 or 357 (3) SP	Arts and Humanities Technical Elective* (3) FA, SP, SU
ours ing nours	Prereq- MSE 201 and 210 MSE 304 (1) SP	MSE 301 (3) FA Prereq- Math 142/148, 231; EF 230 MSE 390 or 397 (3) SP	MSE 201 and 260 MSE 370 (3) SP Prereq- MSE 340 and 360 and	MSE 340 or 347 (3) FA Prereq- MSE 201 MSE 302 (3) SP	MSE 360 or 367 (3) FA Prereq- MSE 201 MSE 350 or 357 (3) SP	Arts and Humanities Technical Elective* (3) FA, SP, SU
inours ing hours	Prereq- MSE 201 and 210 MSE 304 (1) SP Prereq- MSE 300, 320, 340, 360	MSE 301 (3) FA Prereq- Math 142/148, 231; EF 230 MSE 390 or 397 (3) SP Prereq- MSE 201	Prereq- MSE 201 and 260 MSE 370 (3) SP Prereq- MSE 340 and 360 and coreq- MSE 320	MSE 340 or 347 (3) FA Prereq- MSE 201 MSE 302 (3) SP Prereq- MSE 201	MSE 360 or 367 (3) FA Prereq- MSE 201 MSE 350 or 357 (3) SP Prereq- MSE 201	Arts and Humanities Technical Elective* (3) FA, SP, SU
iours ing hours	Prereq- MSE 201 and 210 MSE 304 (1) SP Prereq- MSE 300, 320, 340, 360 MSE 410 (3) FA, SP	MSE 301 (3) FA Prereq- Math 142/148, 231; EF 230 MSE 390 or 397 (3) SP Prereq- MSE 201 MSE 405 (WC) (4) FA, SP	Prereq- MSE 201 and 260 MSE 370 (3) SP Prereq- MSE 340 and 360 and coreq- MSE 320 MSE 480 (3) FA	MSE 340 or 347 (3) FA Prereq- MSE 201 MSE 302 (3) SP Prereq- MSE 201 Gen. Ed. (3) FA, SP, SU	MSE 360 or 367 (3) FA Prereq- MSE 201 MSE 350 or 357 (3) SP Prereq- MSE 201 Gen. Ed. (3) FA, SP, SU	Arts and Humanities Technical Elective* (3) FA, SP, SU
nours ing hours	Prereq- MSE 201 and 210 MSE 304 (1) SP Prereq- MSE 300, 320, 340, 360 MSE 410 (3) FA, SP	MSE 301 (3) FA Prereq- Math 142/148, 231; EF 230 MSE 390 or 397 (3) SP Prereq- MSE 201 MSE 405 (WC) (4) FA, SP	Prereq- MSE 201 and 260 MSE 370 (3) SP Prereq- MSE 340 and 360 and coreq- MSE 320 MSE 480 (3) FA	MSE 340 or 347 (3) FA Prereq- MSE 201 MSE 302 (3) SP Prereq- MSE 201 Gen. Ed. (3) FA, SP, SU	MSE 360 or 367 (3) FA Prereq- MSE 201 MSE 350 or 357 (3) SP Prereq- MSE 201 Gen. Ed. (3) FA, SP, SU	Arts and Humanities Technical Elective* (3) FA, SP, SU

*Technical electives: Chem 473; MSE 421, 466, 474; Phys 411. Credit for other course that address processing, structure, properties or behavior of nanomaterials may be substituted by permission of academic advisor and department head.

Progression

Progression of students to departmental upper-division courses is competitive. Factors considered include overall grade point average, performance in selected lower division courses and evidence of satisfactory and orderly progress through the prescribed curriculum.

Upper Division Status

A lower division student formally applies for upper division status after completing 50 hours of lower division engineeirng curriculum course work with an overall GPA of at least 2.4. This must include MSE 201.

Provisional Status

Students who have completed 50 hours of lower-division engineering curriculum course work with an overall GPA between 2.0 and 2.4 may apply for provisional status. The granting of provisional upper-division status is based on the availability of space in the departmental programs after upper-division status students have been accommodated. Provisional students are required to demonstrate their ability to perform satisfactorily in upper-division courses by attaining a minimum GPA of 2.0 in at least 8 hours of 300-level required courses specified by the department. Further progression to upper-division courses is dependent upon this minimum level of performance.

MSE Graduation Requirements

Graduation in materials science and engineering requires a minimum grade point average of 2.0 for all departmental courses.

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

UTRACK Milestones:

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6 through 8
Math 130 or higher or one SS	Math 130 or higher	EF 151/157 or	EF 152/158 or Physics 136/138		No Milestones
or one AH or one CC		Physics 135/137		or CBE 201	