

## Materials Science and Engineering Catalog 2016

### BIOMATERIALS CONCENTRATION

Fall 16 hours	English 101 or 118 (3) FA, SP, SU	Chem 120 or 128 (4) FA, SP, SU Math 130	Math 141 or 147 (4) FA, SP, SU Prereq- Math 130 or Math ACT 28 or Math SAT 630	EF 151 or 157 (4) FA, SP Coreq- Math 141 or 147 and EF 105	EF 105 (1) FA, SP Coreq- EF 151 or 157
Spring 16 hours	English 102 (3) FA, SP, SU Prereq- English 101 or 118	Chem 130 or 138 (4) FA, SP, SU Prereq- Chem 120 or 128	Math 142 or 148 (4) FA, SP, SU Prereq- Math 141 or 147	EF 152 or 158 (4) FA, SP Prereq- EF 151 or 157 Coreq- Math 142 or 148	MSE 101 (1) SP

Fall 17 hours	MSE 201 or 207 (3) FA, SP, SU Prereq- Chemistry 120 or 128	MSE 210 (1) FA Coreq- MSE 201	Math 241 or 247 (4) FA, SP, SU Prereq- Math 142 or 148	Physics 231 (3) FA, SP, SU Coreq- Math 142 or 148	Econ 201 or 207 (4) FA, SP, SU Social Science	EF 230 (2) FA, SP Prereq- EF 152 or 158 or Physics 136 or 138
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Spring 16 hours	MSE 290 (1) SP	Math 200 (2) FA, SP Cannot receive credit if previous C or better in math 251 or 257	Math 231 (3) FA, SP, SU Prereq- Math 142 or 148	Physics 232 (4) FA, SP, SU Prereq- Physics 231 Coreq- Math 241 or 247	MSE 250 (3) SP Prereq- Math 142 or 148, EF 230 and Coreq- Math 231 and MSE 201	MSE 260 (3) SP Prereq- EF 152 /158, Chem 130/138, and Math 241/ 247; MSE 201
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Fall 16 hours	MSE 300 (1) FA Prereq- MSE 201 and 210	MSE 301 (3) FA Prereq- Math 142/148, 231; EF 230	MSE 320 (3) FA Prereq- MSE 201 and 260	MSE 340 or 347 (3) FA Prereq- MSE 201	MSE 360 or 367 (3) FA Prereq- MSE 201	Gen. Ed. (3) FA, SP, SU Arts and Humanities
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Spring 17 hours	MSE 304 (1) SP Prereq- MSE 300, 320, 340, 360	MSE 390 or 397 (3) SP Prereq- MSE 201	MSE 370 (3) SP Prereq- MSE 340 and 360 and coreq- MSE 320	MSE 302 (3) SP Prereq- MSE 201	MSE 350 or 357 (3) SP Prereq- MSE 201	Biology 160/168 or BCMB 230 BCMB Prereq- Chem 130
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Fall 16 hours	MSE 474 (3) FA, SP, SU Prereq-MSE 201	MSE 405 (WC) (4) FA, SP Prereq- Physics 232	MSE 480 (3) FA Prereq- MSE 201; level junior	Gen. Ed. (3) FA, SP, SU Culture and Civilizations	Gen. Ed. (3) FA, SP, SU Social Science
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Spring 15 hours	MSE Elective (3) FA, SP, SU Choose from MSE 485 or 486 or 578 or 588	Gen. Ed. (3) FA, SP, SU Culture and Civilizations	Gen. Ed. (3) FA, SP, SU Arts and Humanities	Technical Elective* (3) FA, SP, SU Choose from BME 409, BSE 231, CBE 475, MSE 485 or MSE 486	MSE 489 (OC) (3) SP Prereq- MSE 304, 340/347, 360/367, 370, 390/397, and 480
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#### 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 engineering 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:

<b>Term 1</b> Math 130 or higher or one SS	<b>Term 2</b> Math 130 or higher	<b>Term 3</b> EF 151/157 or	<b>Term 4</b> EF 152/158 or Physics 136/138	<b>Term 5</b> ME 202 or CS 102 or MSE 201	<b>Term 6 through 8</b> No Milestones
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