### Materials Science and Engineering Catalog 2017

#### Fall

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
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</thead>
</table>
| 16    | 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, SU  
EF 105 (1) FA, SP |
| 16    | English 102 (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 |
| 16    | Math 130  
Prereq- Math 130 or Math ACT 28  
or Math SAT 630  
Coreq- Math 141 or 147 and EF 105 |
| 16    | Math 141 or 147 (4) FA, SP, SU  
EF 151 or 157 (4) FA, SP, SU  
EF 105 (1) FA, SP |

#### Spring

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| 16    | English 102 (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 |
| 16    | Math 130  
Prereq- Math 130 or Math ACT 28  
or Math SAT 630  
Coreq- Math 141 or 147 and EF 105 |
| 16    | Math 141 or 147 (4) FA, SP, SU  
EF 151 or 157 (4) FA, SP, SU  
EF 105 (1) FA, SP |

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| 17    | MSE 201 or 207 (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  
Social Science |
| 17    | MSE 290 (1) SP  
Math 209 (2) FA, SP  
Physics 231 (4) FA, SP, SU  
Physics 232 (4) FA, SP, SU  
MSE 250 (3) SP  
MSE 260 (3) SP  
EF 230 (2) FA, SP  
EF 230 (2) FA, SP, SU  |

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| 16    | MSE 201 or 207 (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  
Social Science |
| 17    | MSE 300 (1) FA  
MSE 301 (3) FA  
MSE 320 (3) FA  
MSE 340 or 347 (3) FA  
MSE 350 or 357 (3) FA  
Gen. Ed. (3) FA, SP, SU  
Arts and Humanities |

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</table>
| 15    | MSE 4XX (3) FA, SP, SU  
see below  
Gen. Ed. (3) FA, SP, SU  
Culture and Civilizations |
| 15    | MSE 4XX (3) FA, SP, SU  
see below  
Gen. Ed. (3) FA, SP, SU  
Culture and Civilizations |

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| 16    | MSE 4XX (3) FA, SP, SU  
see below  
Gen. Ed. (3) FA, SP, SU  
Culture and Civilizations |
| 16    | MSE 4XX (3) FA, SP, SU  
see below  
Gen. Ed. (3) FA, SP, SU  
Culture and Civilizations |

**Technical electives:** ECE 301, BCMB 230, BIOL 160 or 168, BME 410, CBE 475, EF 333; any MSE course; ME 321; NE 483; ME 484; 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, 421, 425, 432, 440, 445, 450, 451, 455, 457, 460, 466, 474, 484, 485, 486, 494, 495.

**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:**

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
<th>Term 5</th>
<th>Term 6 through 8</th>
</tr>
</thead>
</table>
| Math 130 or higher or one SS  
or one AH or one CC  
EF 151 or 157 or 158  
Physics 135/137 |
| Math 130 or higher  
EF 151 or 157 or 158  
Physics 135/137 |
| Math 130 or higher  
EF 151 or 157 or 158  
Physics 135/137 |
| Math 130 or higher  
EF 151 or 157 or 158  
Physics 135/137 |
| Math 130 or higher  
EF 151 or 157 or 158  
Physics 135/137 |
| No Milestones |

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*See below for UTRACK Milestones.*