

Materials Science Curriculum Map - All Other Areas

Students should use this curriculum map as a guide to have a more informed discussion with the departmental academic advisor when selecting courses. Students not taking courses as advised may result in a delayed graduation date.

First Year		Second Year		Third Year		Fourth Year	
14-15 hrs MSE 182 (2)	17-18 hrs MSE 183 (1) ⁴	17 hrs MSE 201 (3)	15 hrs MSE 206 (4)	15 hrs MSE 307 (3) ⁵	17 hrs MSE 308 (3) ⁵	15 hrs MSE 404 (3) ⁹	17 hrs MSE 404 (3) ⁹
MATH 221 (4) ¹	MATH 231 (3)	MATH 241 (4)	MATH 285 (3)	MSE 401 (3)	MSE 304 (3)	Topical Lect (3) ⁷	MSE 395 (3)
CHEM 102 (3)	CHEM 104 (3)	MATH 257 (3)	ECE 205 (3)	MSE 406 (3)	MSE 402 (3)	Topical Lect (3) ⁷	Topical Lect (3) ⁷
CHEM 103 (1)	CHEM 105 (1)	PHYS 212 (4)	PHYS 214 (2)	IE 300 (3) ⁶	MSE 405 (3)	Tech Elect (3) ¹⁰	Tech Elect (3) ¹⁰
ENG 100 (1) ²	PHYS 211 (4)	Gen Ed Elect (3) ⁵	Gen Ed Elect (3) ⁵	Gen Ed Elect (3) ⁵	Topical Lect (3) ⁷	Free Elect (3) ⁸	Free Elect (3) ⁸
RHET 105 (4) ^{3,5}	Gen Ed Elect (3) ^{3,5}				Free Elect (2) ⁸		Free Elect (2) ⁸
	CS 101 (3)						

¹MATH 220 may be substituted. MATH 220 is appropriate for students with no background in calculus. 4 of 5 credit hours count towards degree.

²External transfers take ENG 300.

³RHET 105 (or an alternative Composition I sequence) is taken either in the first or second semester of the first year, according to the student's UIN (Spring if UIN is Odd). General Education elective is taken the other semester. Composition I guidelines can be found at <http://catalog.illinois.edu/general-information/degree-general-education-requirements/> under Written Communication Requirement.

⁴Recommended, optional 1 credit course, MSE 183 Freshman Materials Laboratory. Credit hour counts toward free electives.

⁵General Education: Students must complete the Campus General Education requirements including the campus general education language requirement. MSE 307 and MSE 308 will satisfy technical core requirements and the Campus General Education Advanced Composition requirement.

⁶Students can take IE 300 or STAT 400. The extra hour of credit for STAT 400 may be used to help meet free elective requirements.

⁷To be selected from list of topical lecture courses approved by the department: <http://catalog.illinois.edu/undergraduate/engineering/materials-science-engineering-bs/#degreerequirementstext>.

⁸Additional coursework, subject to the Grainger College of Engineering restrictions to Free Electives, so that there are at least 128 credit hours earned toward the degree (go.grainger.illinois.edu/FreeElectives).

⁹Each section of MSE 404 is 1.5 hours. Students take 2 unique sections of MSE 404 for 3 hours.

¹⁰To be selected from the technical elective courses approved by the department: <http://catalog.illinois.edu/undergraduate/engineering/materials-science-engineering-bs/#degreerequirementstext>.