

Materials Science Curriculum Map - Biomaterials Area

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.

<i>First Year</i>		<i>Second Year</i>		<i>Third Year</i>		<i>Fourth Year</i>	
14-15 hrs	17-18 hrs	17 hrs	15 hrs	16 hrs	15 hrs	16 hrs	17 hrs
MSE 182 (2)	MSE 183 (1) ⁴	MSE 201 (3)	MSE 206 (4)	MSE 307 (3) ⁵	MSE 308 (3) ⁵	MSE 470 (3)	MSE 395 (3)
MATH 221 (4) ¹	MATH 231 (3)	MATH 241 (4)	MATH 285 (3)	MSE 401 (3)	MSE 402 (3)	Topical Lect (2) ⁸	Topical Lect (3) ⁸
CHEM 102 (3)	CHEM 104 (3)	MATH 257 (3)	ECE 205 (3)	MSE 406 (3)	IE 300 (3) ⁷	Topical Lect (3) ⁹	Topical Lect (3) ⁹
CHEM 103 (1)	CHEM 105 (1)	PHYS 212 (4)	PHYS 214 (2)	MCB 150 (4)	MCB 252 (3)	MCB 450 (3)	MSE 404 (3) ¹¹
ENG 100 (1) ²	PHYS 211 (4)	Gen Ed Elect (3) ⁵	Gen Ed Elect (3) ⁵	CHEM 232 (3) ⁶	Gen Ed Elect (3) ⁵	Free Elect (3) ¹⁰	Free Elect (3) ¹⁰
RHET 105 (4) ^{3,5}	Gen Ed Elect (3) ^{3,5}					Free Elect (2) ¹⁰	Free Elect (2) ¹⁰
	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 who take CHEM 232 for 4 hours can count the extra hour as free elective.

⁷Students in the Biomaterials Area may substitute STAT 400 for IE 300 with permission from the department.

⁸To be selected from list of topical lecture courses in biomaterials area, approved by the department: <http://catalog.illinois.edu/undergraduate/engineering/materials-science-engineering-bs/#degreerequirementstext>.

⁹To be selected from list of topical lecture courses in all other areas, approved by the department: <http://catalog.illinois.edu/undergraduate/engineering/materials-science-engineering-bs/#degreerequirementstext>.

¹⁰Additional 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).

¹¹Each section of MSE 404 is 1.5 hours. Students take 2 unique sections of MSE 404 for 3 hours.