

Materials Science & Engineering (2009 - 10)

Below is the *advised sequencing* of courses for this degree.

FRESHMAN YEAR				SOPHOMORE YEAR			
First Semester		Second Semester		First Semester		Second Semester	
Course	Units	Course	Units	Course	Units	Course	Units
ENGR 102	3	MSE 110	4	MSE 222	3	MSE 223L	2
MATH 125 or 124 [#]	3	Tier 1 TRAD	3	MSE 345	4	MATH 254	3
CHEM 151	4	MATH 129	3	MATH 223	4	MSE 365	4
ENGL 101	3	PHYS 141	4	PHYS 241	4	Tier 1 INDV*	3
Tier 1 INDV*	3	ENGL 102	3			MSE 223R	3
TOTAL	16	TOTAL	17	TOTAL	15	TOTAL	15

Advanced standing is required for 3/400 courses taught by the College

JUNIOR YEAR				SENIOR YEAR			
First Semester		Second Semester		First Semester		Second Semester	
Course	Units	Course	Units	Course	Units	Course	Units
MSE Tech	3	MSE 360L	1	ENGR 498A	3	ENGR 498B	3
Elect.***	3	MSE Tech Elect.***	3	MSE Tech	3	MSE Tech	3
MATH Elect.**	3	MSE 480	3	Elect.***	3	Elect.***	3
ECE 207	3	MSE 415	4	Tech Elect##	6	Tech Elect##	6
MSE 350	3	Adv. Basic Science	3	Tier 2 INDV*	3	Tier 2	3
Tier 1 TRAD	3	Elective	3			Art/Hum*	3
TOTAL	15	TOTAL	14	TOTAL	15	TOTAL	15

TOTAL UNITS = 122 / 124

MATH 124 is a 5 unit version of MATH 125. Students taking MATH 124 should consider delaying the Tier 1 INDV course to maintain a reasonable academic load.

* INDV/TRAD/Art/Hum courses must meet University general education requirements. One course must be recognized by the University as focusing on non-western culture, race, gender or ethnicity. TRAD 101 satisfies this requirement.

**Students are required to take a course such as statistics, linear algebra, or advanced calculus. A statistics course, such as SIE 305, is highly recommended.

Technical electives should be chosen with the 42 upper division unit requirement in mind (300 & 400 level courses).

***MSE technical electives: Students are required to take 12 units of MSE Tech. Elect. See department advisor for list of approved courses.