

Materials Science & Engineering (2011-12)

**Below is the *advised sequencing* of courses for this degree,
the official degree requirements are found in the University General Catalog.**

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 [#]	3/5	MATH 129	3	MSE 345	4	MATH 254	3
CHEM 151	4	ENGL 102	3	MATH 223	4	MSE 365	4
ENGL 101	3	PHYS 141	4	PHYS 241	4	MSE 223R	3
Tier 1 INDV*	3	Tier 1 TRAD*	3			Tier 1 INDV*	3
TOTAL	16	TOTAL	17	TOTAL	15	TOTAL	15

JUNIOR YEAR				SENIOR YEAR			
First Semester		Second Semester		First Semester		Second Semester	
Course	Units	Course	Units	Course	Units	Course	Units
MSE Tech Elect.***	3	MSE 360L	1	ENGR 498A	3	ENGR 498B	3
MATH Elect.**	3	MSE Tech Elect.***	3	MSE Tech Elect.***	3	MSE Tech Elect.***	3
ECE 207	3	MSE 480	3	Tech Elect##	6	Tech Elect##	6
MSE 350	3	MSE 415	4	Tier 2 INDV*	3	Tier 2 Art/Hum*	3
Tier 1 TRAD*	3	Adv. Basic Science Elective	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 gender, race, class, ethnicity, sexual orientation or non-western area of studies. 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.