

Materials Science & Engineering (2012-13)

**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 122A/B [#]	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 16/18		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

MATH 122A/B is a 5 unit version of MATH 125. Students taking MATH 122A/B 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.