

# *Industrial 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	ECE 175	3	SIE 250	3	SIE 265	3
MATH 125 or 122A/B <sup>#</sup>	3/5	CHEM 152		SIE 277	3	SIE 270	3
CHEM 151	4	or MSE 110 or MCB	4	MATH 223	4	SIE 295S	1
ENGL 101	3	181R/L		PHYS 241	4	Engr Science***	4
Tier 1 INDV*	3	MATH 129	3	Tier 1 TRAD*	3	Tier 1 INDV*	3
		PHYS 141	4			Tier 1 TRAD*	3
		ENGL 102	3				
TOTAL	16/18	TOTAL	17	TOTAL	17	TOTAL	17

JUNIOR YEAR				SENIOR YEAR			
First Semester		Second Semester		First Semester		Second Semester	
Course	Units	Course	Units	Course	Units	Course	Units
SIE 305	3	SIE 321	3	SIE 431	3	ENGR 498B	3
SIE 340	3	SIE 330R	3	SIE 462	3	Tech Elect**	3
SIE 377	3	SIE 370	4	Tech Elect**	3	Tech Elect**	3
SIE 410A	3	SIE 383	3	ENGR 498A	3	Social Sci – Select	
ENGL 308	3			Tech Elect**	3	from list*****	3
				Tier 2 INDV*	3	Tier 2 Art/Hum*	3
TOTAL	15	TOTAL	13	TOTAL	18	TOTAL	15

TOTAL UNITS = 128

<sup>#</sup> 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.

\*\* Technical electives must be approved by the student's advisor.

\*\*\* Engineering Science - AME 230 or CE 214 or ECE 207 plus 1 unit of ENGR 211. ENGR 211P may not be taken for credit.

\*\*\*\* Social Sciences - BNAD 302, PSY 319, 325, 326, 346, 352, 360, 375, or 376.