

Systems 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	ECE 175	3	SIE 250	3	SIE 265	3
MATH 125 or 124 [#]	3/5	CHEM 152		SIE 277	3	SIE 270	3
CHEM 151	4	or MSE 110		MATH 223	4	SIE 295S	1
ENGL 101	3	or MCB 181R/L	4	PHYS 241	4	MATH 254	3
Tier 1 INDV*	3	MATH 129	3	Tier 1 INDV*	3	Specialty Elect 1**	3
		PHYS 141	4			Tier 1 TRAD*	3
		ENGL 102	3				
TOTAL	16/18	TOTAL	17	TOTAL	17	TOTAL	16

[Advanced standing is required for 3/400 level courses taught by the College](#)

JUNIOR YEAR				SENIOR			
First Semester		Second Semester		First Semester		Second Semester	
Course	Units	Course	Units	Course	Units	Course	Units
SIE 305	3	SIE 321	3	SIE 410A	3	ENGR 498B	3
SIE 340	3	SIE 330R	3	SIE 431	3	Specialty Elect	3
ECE 207	3	SIE 350	3	SIE 453	3	4**	
Specialty Elect 2**	3	SIE 370	4	SIE 454A	3	Tier 2 INDV*	3
ENGL 308	3	Specialty Elect 3**	3	ENGR 498A	3	Tier 2 Art/Hum*	3
				Tier 1 TRAD*	3	Free Elect	1
TOTAL	15	TOTAL	16	TOTAL	18	TOTAL	13

TOTAL UNITS = 128

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 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.

** Specialty electives must be approved by the student's faculty advisor. A list describing specialties in Software Systems, Engineering Management, Decision and Control, and Information Technology, is available in the department office.