

COLLEGE OF ENGINEERING

Bachelor of Science, Mechanical Engineering

Four-Year Academic Map 2017-2018

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total
	CHEM 1111	Fundamentals of Chemistry Lab 1	1	CHEM 1112	Fundamentals of Chemistry Lab 2	1	
CHEM 1331	Fundamentals of Chemistry 1*	3	CHEM 1332	Fundamentals of Chemistry 2*	3		
ENGL 1303	First Year Writing I*	3	ENGI 1331	Computing for Engineers	3		
MATH 1431	Calculus I*	4	MATH 1432	Calculus II	4		
POLS 1336	U.S. & TX Constitution & Politics*	3	PHYS 1321	University Physics I	3		
ENGI 1100	Introduction to Engineering	1	ENGL 1304	First Year Writing II*	3		
Semester Hours		15	Semester Hours		17	32	

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	CIVE 2330	Mechanics I	3	ENGI 2304	Technical Communications	3	
POLS 1337	U.S. Government*	3	MATH 3321	Engineering Mathematics	3		
MATH 2433	Calculus III	4	MECE 2334	Thermodynamics I	3		
PHYS 1322	Physics II	3	MECE 3336	Mechanics II	3		
CORE	Lang, Philosophy & Culture Core*	3	MECE 2361	Intro to Mechanical Design	3		
Semester Hours		16	Semester Hours		15	31	

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total
	MECE 3338	Dynamics & Control of Mech Sys	3	HIST 1378/79	The United States Since 1877*	3	
MATH 3363	Intro Partial Differential Equations	3	MECE 3245	Materials Science Lab	2		
MECE 3369	Solid Mechanics	3	MECE 3381	Intro to Finite Element Methods	3		
MECE 3345	Materials Science	3	MECE 3360	Experimental Methods	3		
CORE	Social Science Core*	3	MECE 3363	Intro to Fluid Mechanics	3		
HIST 1376/77	The United States to 1877*	3	CORE	Creative Arts Core*	3		
Semester Hours		18	Semester Hours		17	35	

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total
	MECE 4364	Heat Transfer	3	MECE 4341	Mechanical Engr Capstone II	3	
MECE 4340	Mechanical Engr Capstone I	3	MECE 4371 <i>or</i>	Thermal-Fluids Lab <i>or</i>	3		
MECE 53XX	Mechanical Engr Elective	3	MECE 4372	Mechanics-Controls-Vibration Lab	3		
MECE 4331	Design of Machine Elements	3	MECE 53XX	Mechanical Engr Elective	3		
MECE 4343	Thermal Design	3	MECE 53XX	Mechanical Engr Elective	3		
			MECE 53XX	Mechanical Engr Elective	3		
Semester Hours		15	Semester Hours		15	30	
						128	

Students should meet with their academic advisor to formulate their own plan.