

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FIRST YEAR	FALL		3	ENGL 1301	Rhetoric and Composition I		010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.		
			4	MATH 2413	Calculus I		020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.		
			3	CHEM 1307	Chemistry for Engineers		030	MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of "C" or higher."		
			1	CHEM 1107	Chemistry for Engineers Lab		090	Credit/registration in CHEM 1307.		
			1	MECE 1101	Introduction to Mechanical Engineering					
		2	MECE 1221	Engineering Graphics				Includes Graphic Lab.		
				UNIV 1301	Learning Framework			Only if required, based on ACT/SAT and high school rank.		
	14 Semester									
		SPRING		3	ENGL 1302	Rhetoric And Composition II		010	A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
			4	MATH 2414	Calculus II		020	MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
	3		MECE 2340	Engineering Materials			A grade of 'C' or better in CHEM 1307 and CHEM 1107 or CHEM 1311 and CHEM 1111, and credit/registration in MECE 2140.			
	1		MECE 2140	Engineering Materials Laboratory			A grade of 'C' or better in CHEM 1307 and CHEM 1107 or CHEM 1311 and CHEM 1111, and credit/registration in MECE 2340.			
		4	PHYS 2425	Physics for Scientists and Engineers I		030	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).			
15 Semester										
	SUMMER I		3	HIST 1301	U.S. History I		060			
		3	MANE 2332	Engineering Statistics			MATH 2413 (or MATH 2487).			
6 Semester										
	SUMMER II		3	MANE 3364	Manufacturing Processes			Prerequisite MANE 2332		
		1	MANE 3164	Manufacturing Processes Lab			Credit for MECE 2140 and credit/registration in MANE 3364. MECE 2340 may not be taken concurrently.			
4 Semester										
SECOND YEAR	FALL		3	MECE 2350	Numerical Methods for Engineers			Credit/registration in MATH 2414 (or MATH 2488).		
			3	HIST 1302	U.S. History II		060			
			4	MECE 3449	Mechanical Engineering Analysis I			A grade of 'C' or better in MATH 2414 (or MATH 2488) and credit/registration in MECE 2350.		
			3	MECE 2301	Statics			A grade of 'C' or better in MECE 1101 and PHYS 2425, and credit/registration in MATH 2414 (or MATH 2488).		
			4	PHYS 2426	Physics for Scientists and Engineers II		030	PHYS 2425.		
	17 Semester									
		SPRING		4	MECE 3450	Mechanical Engineering Analysis II			A grade of 'C' or better in MECE 2450 and MECE 3449.	
			3	MECE 2302	Dynamics			A grade of 'C' or better in MECE 2301 and MATH 2414 (or MATH 2488).		
			3	MECE 2335	Thermodynamics I			A grade of 'C' or better in CHEM 1307 or CHEM 1311, MATH 2414 (or MATH 2488) and PHYS 2425.		
			3	ELEE 2317	Electrical and Electronic Systems			PHYS 2426.		
	3		ENGL x3xx	Integrative and Experiential Learning				Choose ENGL from Humanities section		
16 Semester										

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
THIRD YEAR	FALL	3		MECE 3321	Mechanics of Solids			A grade of C or better in MATH 2414 (or MATH 2488) and MECE 2301 or MANE 2403.		
		3		MECE 3336	Thermodynamics II			A grade of 'C' or better in MECE 2335.		
		3		MECE 3320	Measurements and Instrumentation			A grade of 'C' or better in ELEE 2317, MANE 2332, MECE 3450 and PHYS 2426.		
		3		MECE 3380	Kinematics and Dynamics of Machines			A grade of 'C' or better in MECE 1221 and MECE 2302.		
		3		X3XX	Social & Behavioral Science			See General Education Core Curriculum		
	15 Semester									
	SPRING	3		MECE 3304	System Dynamics			A grade of 'C' or better in MECE 2302 and MECE 3450.		
		3		MECE 3315	Fluid Mechanics			A grade of 'C' or better in MECE 2335, MATH 2415 or MECE 3449, and MATH 3349 or MECE 3450.		
		1		MECE 3115	Fluid Mechanics Laboratory			Credit/registration in MECE 3315.		
		3		MECE 43XX	Technical Elective I			Faculty Advisor Approval		
3			POLS 2301	U.S. & Texas Government & Politics I		070				
3		PHIL 1310	Ethics, Happiness, and the Good Life		040		Must enroll in Engineering designated section			
16 Semester										
		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FOURTH YEAR	FALL	3		MECE 4361	Senior Design Project I			A grade of 'C' or better in MECE 3304 and credit/registration in MECE 3315, MECE 3320, MECE 3360, MECE 3380, and MECE 4350.		
		3		MECE 3360	Heat Transfer			A grade of 'C' or better in MECE 3315.		
		1		MECE 3160	Heat Transfer Laboratory			Credit/registration in MECE 3360.		
		1		MECE 4101	Fundamentals of Engineering			Junior standing in engineering and within two semesters of graduation.		
		3		MECE 4350	Machine Elements			A grade of 'C' or better in MECE 2302, MECE 2340, and MECE 3321.		
	3		POLS 2302	U.S. & Texas Government & Politics II		070				
	14 Semester									
	SPRING	3		MECE 4362	Senior Design Project II			A grade of 'C' or better in MECE 4361.		
		3		MECE 43XX	Technical Elective II			Faculty Advisor Approval		
		3		MECE 43XX	Technical Elective III			Faculty Advisor Approval		
3		x3xx	Creative Arts		050		See General Education Core Curriculum			
12 Semester										

Graduation Requirements

129 TOTAL HOURS
(50) TOTAL ADVANCED HOURS

Approved: Wednesday, March 12, 2014
Revised: Friday, October 23, 2015

Symbols Key		
Critical ('I') : sequence sensitive course.	General Education Core (GEC) Sections : 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Computer Application; 090 - Interdisciplinary ;090 - Science Labs; 090 - Wellness.	Language Proficiency Requirement : Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.
Minimum Grade : A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.		