

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FIRST YEAR	FALL		3	ENGL 1301	Rhetoric and Composition I	C	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.		
			4	MATH 2413	Calculus I	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.		
			3	CSCI 1380	Computer Science I		090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.		
			3	CHEM 1307	Chemistry for Engineers			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.		
					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	C	010	A grade of 'C' or better in ENGL 1301 or ENGL 1387.		
			4	MATH 2414	Calculus II	C		MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
			1	MANE 1101	Introduction to Manufacturing Engineering					
			3	MANE 2332	Engineering Statistics	C		MATH 2413 (or MATH 2487).		
			2	MANE 1204	Manufacturing Engineering Graphics					
			3	X3XX	Social and Behavioral Science		080		See General Education Core Curriculum	
	16 Semester									
SECOND YEAR	FALL		3	MANE 3351	Manufacturing Engineering Analysis			MATH 2414 (or MATH 2488) and CSCI 1380 (or CSCI 1387).		
			4	PHYS 2425	Physics for Scientists and Engineers I	C	030/090	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).		
			3	MANE 4311	Quality Control			MANE 2332.		
			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.		
			3	MANE 3300	Computer-Aided Design			Either MANE 1204 or MECE 1221.		
		17 Semester								
	SPRING		4	MATH 2415	Calculus III			MATH 2414 (or MATH 2488) with a grade of 'C' or better.		
			3	MANE 4340	Operations Research			MANE 3351.		
			4	PHYS 2426	Physics for Scientists and Engineers II		030/090	PHYS 2425.		
			3	MANE 3337	Engineering Economics	D		Credit/registration in MANE 2332.		
			3	MANE 3340	Fundamentals of Industrial Engineering			Credit/registration in MANE 2332.		
		17 Semester								

		!	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR	FALL		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
			4	MANE 2403	Engineering Mechanics	C		Grade of 'C' or better in PHYS 2425.	
			3	MATH 3341	Differential Equations			MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	
			3	ELEE 2317	Electrical and Electronic Systems			PHYS 2426.	
			3	MANE 3364	Manufacturing Processes			Course or Test: MECE 2140. May not be taken concurrently. AND Course or Test: MECE 2340. May not be taken concurrently.	
			1	MANE 3164	Manufacturing Processes Lab			Credit for MECE 2140 and credit/registration in MANE 3364. MECE 2340 may not be taken concurrently.	
17 Semester									
THIRD YEAR	SPRING		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
			3	MECE 3321	Mechanics of Solids	D		A grade of C or better in MATH 2414 (or MATH 2488) and MECE 2301 or MANE 2403.	
			3	MANE X3XX	Technical Elective I				
			3	MANE 3302	Computer-Aided Manufacturing			Credit/registration in MANE 3364.	
			3	MANE 4365	Tool Design			MANE 3300.	
			3	Choose 1	Creative Arts (Core)		050		See General Education Core Curriculum
18 Semester									
		!	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	FALL		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)
			3	MANE 4331	Manufacturing Planning and Control			Credit/registration in MANE 4340.	
			1	MANE 4173	Product Design and Mass Customization			MANE 3337.	
			3	MANE 4361	Senior Design I			(MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350).	
			3	MANE 43XX	Technical Elective II				
			3	MANE 4352	Manufacturing Simulation			Grade of 'C' or better in MANE 2332	
16 Semester									
FOURTH YEAR	SPRING		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
			3	MANE 43XX	Technical Elective III				
			4	MANE 3437	Thermal and Fluid Sciences			Grade of 'C' or better in either MANE 2403, or MECE 2301, and credit/registration in MATH 3349.	
			3	PHIL 2326	Professional Ethics: Engineering		040		
			3	MANE 4362	Senior Design II			MANE 4361.	
16 Semester									

Graduation Requirements

131 TOTAL HOURS
(60) TOTAL ADVANCED HOURS

Approved:
Revised: Thursday, May 4, 2017

Critical (!): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.

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.