

FIRST YEAR	FALL	I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
			3	Choose 1	Communication (Core)	C	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H)
			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 1309	Chemistry for Engineers	C		MATH 1314, MATH 1414, MATH 2412, MATH 2413 or MATH 2487 with a grade of "C" or higher.	Other option: CHEM 1311 or CHEM 1307
			1	CHEM 1109	Chemistry for Engineers Lab	C	090	Credit/registration in CHEM 1309	Other option: CHEM 1111 or CHEM 1107
				UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
		14 Semester							
SPRING		3	Choose 1	Communication (Core)		010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305	
		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	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core Curriculum	
	16 Semester								
	SECOND YEAR	FALL	I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite
			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	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 1309 and CHEM 1109 or CHEM 1312 and CHEM 1112, and credit/registration in MECE 2140	
			1	MECE 2140	Engineering Materials Laboratory			A grade of 'C' or better in CHEM 1309 and CHEM 1109 or CHEM 1312 and CHEM 1112, 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	PHYS 2425.	
			3	MANE 3337	Engineering Economics			Credit/registration in MANE 2332.	
		3	MANE 3340	Fundamentals of Industrial Engineering			Credit/registration in MANE 2332.		
	17 Semester								

	I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR	FALL		3	Choose 1		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
			4	MANE 2403		C	Grade of 'C' or better in PHYS 2425.	
			3	MATH 3341			MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
			3	ELEE 2317			PHYS 2426.	
			3	MANE 3364			Course or Test: MECE 2140. May not be taken concurrently. AND Course or Test: MECE 2340. May not be taken concurrently.	
			1	MANE 3164			Credit for MECE 2140 and credit/registration in MANE 3364. MECE 2340 may not be taken concurrently.	
	17 Semester							
	SPRING		3	Choose 1		060		See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
			3	MECE 3321			A grade of C or better in MATH 2414 (or MATH 2488) and MECE 2301 or MANE 2403.	
			3	MANE X3XX				
			3	MANE 3302			Credit/registration in MANE 3364.	
			3	MANE 4365			MANE 3300.	
			3	Choose 1		050		See General Education Core Curriculum
	18 Semester							
FOURTH YEAR	FALL		3	Choose 1		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)
			3	MANE 4331			Credit/registration in MANE 4340.	
			1	MANE 4173			MANE 3337.	
			3	MANE 4361			(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				
			3	MANE 4352			Grade of 'C' or better in MANE 2332	
	16 Semester							
	SPRING		3	Choose 1		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
			3	MANE 43XX				
			4	MANE 3437			Grade of 'C' or better in either MANE 2403, or MECE 2301, and credit/registration in MATH 3349.	
			3	Choose 1				Options: PHIL 1310 (Must enroll in Engineering designated section) or PHIL 2326
			3	MANE 4362			MANE 4361.	
	16 Semester							

CORE: The 2018-2019 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core
www.utrgv.edu/core

Graduation Requirements

131 TOTAL HOURS
(60) TOTAL ADVANCED HOURS

Approved: Wednesday, April 4, 2018
Revised: Wednesday, April 4, 2018

Symbols Key

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 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary ; 090 - Technologies; 090 - Language Diversity & Writing.

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.