

	! Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Option: ENGL 1301
	4	MATH 2413	Calculus I (Core)	С	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	See General Education Core for more details.
	2	ENGT 1201	Foundations of Engineering Technology				
FALL	3	ENGT 1310	Design Graphics I				
T YEAR	3	CHEM 1311	General Chemistry I			MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 2412, or MATH 2413 with a grade of "C" or higher."	or CHEM 1309
FIRS	1	CHEM 1111	General Chemistry I Lab (Core)		090	Credit/Registration in CHEM 1311	or CHEM 1109
		UNIV	1301 Learning Framework 1101 Academic and Career Success 1001 Living and Working by Design				As required, based on credit hours earned, TSI status, High School rank, major declaration.
	16 Semester Total Hours						
_	_		Design Graphics II	_		ENGT 1310	
<u>o</u>	4	MATH 2414	Calculus II	С		MATH 2413 with a grade of 'C' or better.	1 hour of lab to count for 090 Core;
SPRING	4	PHYS 1401	General Physics I/Lab I		030	MATH 1414, MATH 1314, MATH 2412, or MATH 2413.	Or may select PHYS 2425. Prerequisite: MATH 2413 and concurrent enrollment in MATH 2414.
			Engineering Materials			CHEM 1311 or CHEM 1309	
	14 Semester Total Hours Min. Grant Min. Grant Title Min.						
	! Н		Course Title	Grade		Prerequisite	Additional Notes
	1		Machine Shop Lab			ENGT 1310	
	3	MANE 3332	Engineering Statistics			MATH 2413 and credit for or enrollment in MATH 2414.	
	4	PHYS 1402	General Physics II/Lab II		030	PHYS 1401.	1 hour of lab to count for 090 Core; Or may select PHYS 2426. Prerequisite: PHYS 2425
YEAR FALL	3	Choose 1	Communication (Core)			For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1302 or ENGL 1305
OND Y	3	CSCI 1380	Computer Science I		090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
SEC	14 Semester Total Hours						
	3	ENGT 2310	Manufacturing Processes			ENGT 2307.	
ပ	3	ENGT 2321	Industrial Electronics			PHYS 1402 or 2426 and MATH 2413	
7 -	2	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
N I	3						
SPRING	_		Programming for Engineering Applications			CSCI 1380	
SPRII	2	ENGT 2201	Programming for Engineering Applications Prog. Logic Controllers			CSCI 1380 ENGT 2321	

			Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR SPRING FALL		-		Instruments and Transducers			ENGT 3303	
		3 E	ENGT 3301	Computer Numerical Control			ENGT 1105, ENGT 1320, and ENGT 2307	
	<u> </u>	3 E	ENGT 3315	Fluid Power Systems			ENGT 1310, ENGT 2321, and PHYS 1402 or 2426	
	-			American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327.
				Intro to Systems Engineering			CSCI 1380	
	15 Semester Total Hours							
		3 N	MANE 3337	Engineering Economics			Credit/registration in MANE 3332	
		3 E	ENGT 4315	Robotics			ENGT 3303	
		3 E	ENGT 3320	Networked Systems in Manufacturing			ENGT 2321 & ENGT 2310	
	ONIN	3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328.
	5	3	Choose 1	ENGT Practicum				ENGT 3305 or three instances of ENGT 3105. Full time one semester internship or three semesters of part-time internship/research. Best done in summer.
		2 E	ENGT 4201	Technical Project I			ENGT 2310, ENGT 3303, credit for/enrollment in ENGT 3318	
		17 Se	emester Total Ho	urs				
	!	Н		Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		2 E	NGT 4310	System Simulation and Optimization			ENGT 3313	
FOURTH YEAR SPRING FALL				Advanced Engineering Technology Electiv	e			ENGT 3300, ENGT 3310, ENGT 3321, ENGT 4311, ENGT 4312
				Mechatronic Systems Design			ENGT 3310	
	_			Project Management			MANE 3337, ENGT 3324.	
	L			U.S. Federal Govt & Politics		070		
		14 Semester Total Hours						
				Ethics, Technology and Society (Core)		040		
		2 E	ENGT 4202	Technical Project II			ENGT 4201	
				Quality Control & Lean Six Sigma			MANE 3332	Co-requisite: ENGT 4126
	5			Texas Government & Politics		070		
				Creative Arts (Core)		050		See General Education Core for course options.
				Metrology Lab			ENGT 1320, MANE 3332, ENGT 3301	
		15 Semester Total Hours						

CORE: The 2021-2022 list of core courses can be found in the 2021-2022 Undergraduate Catalog: www.utrgv.edu/catalog > See 'Core Curriculum'

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.