

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FIRST YEAR	FALL		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 1305 or ENGL 1387 (H)	
			4	MATH 2413	Calculus I (Core)	C	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					
			3	ENGT 1310	Design Graphics I					
			3	CHEM 1311	General Chemistry I (Core)				MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	See General Education Core for more details.
			1	CHEM 1111	General Chemistry I Lab (Core)			090	Credit/Registration in CHEM 1301	See General Education Core for more details.
					UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
<b>16 Semester Total Hours</b>										
FIRST YEAR	SPRING		3	ENGT 1320	Design Graphics II			ENGT 1310		
			4	MATH 2414	Calculus II	C		MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
			4	PHYS 2425	Physics for Scientists and Engineers I (Core)			030	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	1 hour of lab to count for 090 Core
			1	ENGT 1105	Machine Shop Lab				ENGT 1310	
			3	INFS 2300	Data Modeling Management Tools					
<b>15 Semester Total Hours</b>										
		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
SECOND YEAR	FALL		3	ENGT 2307	Engineering Materials I			CHEM 1311 or CHEM 1309		
			3	MANE 2332	Engineering Statistics			MATH 2413 (or MATH 2487)		
			4	PHYS 2426	Physics for Sci & En II/Lab II (Core)			030	PHYS 2425.	1 hour of lab to count for 090 Core
			3	Choose 1	Communication (Core)			010		See General Education Core for more details Options: ENGL 1302 or ENGL 1305 or ENGL 1388 (H)
			3	Choose 1	Creative Arts (Core)			050		
		<b>16 Semester Total Hours</b>								
SECOND YEAR	SPRING		3	ENGT 2310	Manufacturing Processes			ENGT 2307.		
			3	ELEE 2317	Elec. & Electronics Sys.			PHYS 2426.		
			3	Choose 1	Social and Behavioral Sciences (Core)			080		
			3	COMM 1311	Into to Communication					
			3	ENGT 3301	Computer Numerical Control				ENGT 1320, ENGT 2307, and ENGT 1105	
<b>15 Semester Total Hours</b>										

CORE: The 2019-2020 list of core courses can be found at: [www.utrgv.edu](http://www.utrgv.edu) > Academics > Undergraduate > General Education Core  
[www.utrgv.edu/core](http://www.utrgv.edu/core)

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
THIRD YEAR	FALL		3	MANE 3337	Engineering Economics			Credit/registration in MANE 2332.		
			3	ENGT 3303	Prog. Logic Controllers			ELEE 2317		
			3	ENGT 33XX	Elective I					
			3	Choose 1	American History ( Core)			060	See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327.	
			3	ENGT 33XX	Elective II					
		<b>15 Semester Total Hours</b>								
THIRD YEAR	SPRING		3	ENGT 3318	Instruments and Transducers			ENGT 3303		
			3	ENGT 3324	Metrology			ENGT 1105, ENGT 1320, MANE 2332 and ENGT 3301		
			3	ENGT 33XX	Elective III					
			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	ENGT 33XX	Elective IV					
		<b>15 Semester Total Hours</b>								
FOURTH YEAR	FALL		2	ENGT 4201	Technical Project I			ENGT 2201, ENGT 2310, ENGT 3318, ENGT 3324, MANE 3337 and Credit for or enrollment in ENGT 4335.		
			3	ENGT 4315	Robotics			ENGT 3303 and ENGT 3324		
			3	ENGT 33XX	Elective V					
			3	ENGT 4335	Project Management				MANE 3337, ENGT 3324 and Credit for or enrollment in ENGT 4201	
			3	Choose 1	Government/Political Science (Core)			070	See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)	
		<b>14 Semester Total Hours</b>								
	FOURTH YEAR	SPRING		3	PHIL 2326	Ethics, Technology and Society ( Core)			040	
				2	ENGT 4202	Technical Project II				ENGT 4201
				3	ENGT 4326	Lean Six Sigma				ENGT 3324, MANE 3337
				3	Choose 1	Government/Political Science (Core)			070	See General Education Core for more details. Options: POLS 2306 or POLS 2386 (H)
			3	ENG 23XX	English Literature (Core)			090		
<b>14 Semester Total Hours</b>										

**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.

**120 TOTAL HOURS**  
**(43) TOTAL ADVANCED HOURS**

Approved: Wednesday, March 27, 2019  
Revised: Wednesday, June 5, 2019