

		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 English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See Core Curriculum for details. Option: ENGL 1301	
		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 1381	Introduction to Programming in C++ (Core)	C	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.		
	1		EECE 1101	Introduction to Electrical and Computer Engineering	C					
	3		Choose 1	Social and Behavioral Sciences (Core)			080		See Core Curriculum for course options.	
					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.
				14 Semester Total Hours						
FIRST YEAR	SPRING	4		MATH 2414	Calculus II	C		MATH 2413 with a grade of 'C' or better.		
		3		MATH 2346	Mathematics for Electrical and Computer Engineers	C		CSCI 1381 or CMPE 1170/1370 with a grade of 'C' or better and MATH 2413 with a grade of 'C' or better.		
		4		PHYS 2425	Physics for Scientists and Engineers I	C	030	MATH 2413.		
		3		EECE 2306	Digital Systems Engineering I	C		Credit/registration in CMPE 1101 or ELEE 1101 or CSCI 1101 or EECE 1101.		
		1		EECE 2106	Digital Systems Engineering I Lab	C		Credit/registration for CMPE 2330 or ELEE 2330 or EECE 2306.		
				15 Semester Total Hours						
FIRST YEAR	SUMMER	3		Choose 1	Communication (Core)	C	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 Core Curriculum for details. Options: ENGL 1302 or ENGL 1305	
		3		Choose 1	Creative Arts (Core)			050		See Core Curriculum for course options.
						6 Semester Total Hours				
SECOND YEAR	FALL	3		MATH 3341	Differential Equations	C		MATH 2414 with a grade of 'C' or better.		
		4		PHYS 2426	Physics for Scientists and Engineers II	C	030	PHYS 2425 and MATH 2414.		
		3		EECE 2305	Electric Circuits I	C		Grade of 'C' or better in MATH 2414 and [CMPE 1101 or ELEE 1101 or EECE 1101] and credit/registration for PHYS 2426.		
		1		EECE 2105	Electric Circuits I Lab	C		Credit/registration for CMPE 2320 or ELEE 2305 or EECE 2305.		
		3		EECE 2319	Numerical Computation and Data Visualization	C		CSCI 1381 and credit/registration in MATH 2346.		
					14 Semester Total Hours					
	SECOND YEAR	SPRING	4		MATH 2415	Calculus III	C		MATH 2414 with a grade of 'C' or better.	
			3		CHEM 1309 or CHEM 1311	Chemistry for Engineers or General Chemistry I			MATH 1314, MATH 1414, MATH 2412, MATH 2413 or MATH 2487 with a grade of "C" or higher.	
			3		EECE 3321	Signals and Systems	C		Grade of 'C' or better in [CMPE 2320 or ELEE 2305 or EECE 2305] and credit/registration for MATH 3341.	
			3		EECE 3301	Electronics I	C		Grade of C or better in [CMPE 2320 or ELEE 2305 or EECE 2305] and [CMPE 2120 or ELEE 2105 or EECE 2105]	
1				EECE 3101	Electronics I Lab	C		Grade of C or better in [CMPE 2320 or ELEE 2305 or EECE 2305] and [CMPE 2120 or ELEE 2105 or EECE 2105] and credit or enrollment in EECE 3301 or ELEE 3301.		
3		Choose 1	American History (Core)			060		See Core Curriculum. Options: HIST 1301 or HIST 2327		
				17 Semester Total Hours						

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
THIRD YEAR	FALL		2	EECE 3225	Electrical Engineering Lab I	C		Grade of C or better in: [ELEE 2330 or CMPE 2330 or EECE 2306] and [ELEE 2130 or CMPE 2130 or EECE 2106] and [EECE 2319 or CSCI 2380 or CMPE 2380] and credit/registration in [ELEE 3321 or CMPE 3322 or EECE 3321] and [CMPE 3403 or ELEE 3301 or EECE 3301].		
			3	EECE 3315	Electromagnetics Engineering			[EECE 2305 or ELEE 2305], MATH 2415 and PHYS 2426.		
			4	EECE 3435	Microprocessor Systems	C		Grade of 'C' or better in [ELEE 2330 or CMPE 2330 or EECE 2306] and [CSCI 1370 or CSCI 1381 or CSCI 1387].		
			3	EECE 4303	Digital Systems Engineering II			Grade of 'C' or better in ELEE 2330 or CMPE 2330 or EECE 2306.		
			3	Choose 1	American History (Core)		060		See Core Curriculum. Options: HIST 1302 or HIST 2328	
		15 Semester Total Hours								
THIRD YEAR	SPRING		2	EECE 3230	Electrical Engineering Lab II	C		[EECE 2319 or ELEE 2319] and [EECE 3225 or ELEE 3225] with a minimum grade of C.		
			3	EECE 3340	Probability and Statistics for Electrical and Computer Engineers	C		Grade of 'C' or better in MATH 2414.		
			3	EECE 3302	Electronics II			[EECE 3301 or ELEE 3301] and [EECE 3321 or ELEE 3321].		
			3	EECE 43XX or 33XX	Prescribed Elective				Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program of study for approved list.	
			3	POLS 2305	U.S. Federal Govt & Politics		070			
		14 Semester Total Hours								
		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FOURTH YEAR	FALL		3	EECE 4321	Automatic Controls			[EECE 3321 or ELEE 3321] and MATH 3341.		
			3	EECE 4328	Solid State Devices			EECE 3301 or ELEE 3301		
			3	EECE 4351	Communication Theory			[EECE 3340 or ELEE 3340] and [EECE 3321 or ELEE 3321].		
			3	EECE 4361	Senior Design I	C		Grade of 'C' or better in [ELEE 3435 or CMPE 3437 or EECE 3435 or CSCI 2333 or CMPE 2333] and [CMPE 3403 or ELEE 3301 or EECE 3301] and [STAT 3337 or CMPE 3343 or ELEE 3340 or EECE 3340] and [CMPE 3340 or CSCI 3340 or EECE 3230] and [having finished or be enrolled in at least 6 credits of 4000-level EECE coursework].		
			3	PHIL 2326	Ethics, Technology, and Society		040			
			15 Semester Total Hours							
	FOURTH YEAR	SPRING		3	EECE 43XX or 33XX	Prescribed Elective				Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program of study for approved list.
			3	EECE 43XX or 33XX	Prescribed Elective				Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program of study for approved list.	
			3	EECE 4362	Senior Design II			Grade of 'C' or better in EECE 4361 or ELEE 4361 or CMPE 4371		
			3	POLS 2306	Texas Government & Politics		070			
			3	Choose 1	Integrative/Experiential Learning Option (Core)		090		Complete three credit hours from the approved area, except PHIL 2326, in addition to CSCI 1381.	
		15 Semester Total Hours								

Major Graduation Requirements
 Any course in the degree plan that is a prerequisite or corequisite for an electrical engineering course must be passed with a grade of 'C' or higher. This is a graduation requirement independent of whether the student passes subsequent courses. The courses include: EECE 2306, EECE 2106, CSCI 1381, MATH 2413, EECE 1101, EECE 3435, EECE 2319, MATH 2346, MATH 2414, PHYS 2425, EECE 3340, MATH 3341, MATH 2415, EECE 2305, EECE 2105, PHYS 2426, EECE 3321, EECE 3225, EECE 3301, EECE 3101, EECE 3230, EECE 4361.

CORE: The 2023-2024 list of core courses can be found in the 2023-2024 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.

TOTAL HOURS (42 advanced minimum credit hours)

Approved: Tuesday, March 28, 2023

Revised: Tuesday, March 28, 2023