

		Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	Choose 1	Communication (Core)	С	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)
	ALL	4	MATH 2413	Calculus I	С	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 (Core)	С	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	Either CSCI 1380 or CSCI 1370 can be taken.
		1	ELEE 1101	Introduction to Electrical Engineering				
		3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
				Learning Framework				Only if required, based on ACT/SAT and high school rank.
EAR	14 Semester Total Ho							
Τ		4	MATH 2414	Calculus II	С		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
FIRS	פ	3	MATH 2346	Mathematics for Electrical and Computer Engineers	С		CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
	SPR	4	PHYS 2425	Physics for Scientists and Engineers I	С	030	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	1 hour of lab to count for 090 Core
		3	ELEE 2330	Digital Systems Engineering I	С			
		1	ELEE 2130	Digital Systems Engineering I Lab	С		Credit/registration in ELEE 2330.	
		15	Semester Tot					
		3	Choose 1	Communication (Core)	С	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
		3	Choose 1	Creative Arts (Core)		050		See General Education Core Curriculum
		6	Semester Tot	al Hours				
	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	MATH 3341	Differential Equations	С		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
		4	PHYS 2426	Physics for Scientists and Engineers II	С	030	PHYS 2425.	1 hour of lab to count for 090 Core
	FALL	3	ELEE 2305	Electric Circuits I	С		MATH 2414 (or MATH 2488) and credit/registration in PHYS 2426.	
		1	ELEE 2105	Electric Circuits I Lab			Credit/registration in ELEE 2305.	
æ			ELEE 2319	Numerical Computation and Data Visualization	С		CSCI 1380 (or CSCI 1387) and credit/registration in MATH 2346.	
YEA			Semester Tot				MATHOMA (MATHOMA) ::	
9		4	MATH 2415	Calculus III	С		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
SECO	2	3	MECE 2301 or CHEM 1311 or CHEM 1309	Statics or General Chemistry I or Chemistry for Engineers			Prerequisite for CHEM: MATH 1314/1414	Prerequisite for MECE 2301 Statics: A grade of 'C' or better in MECE 1101 and PHYS 2425, and credit/registration in MATH 2414 (or MATH 2488).
	X X	3	ELEE 3321	Signals and Systems	С		ELEE 2305 and credit/registration in MATH 3341.	
1	7		ELEE 3301	Electronics I	С		ELEE 2305 and credit/registration in ELEE 3321.	
		1	ELEE 3101	Electronics I Lab			Credit/registration in ELEE 3301.	
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
		17	Semester Tot	al Hours				

		! Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		2		Electrical Engineering Lab I	С		ELEE 2330 and ELEE 2130, plus credit or registration for ELEE 3301, ELEE 3321, and ELEE 2319.	
		3		Electromagnetics Engineering			ELEE 2305, MATH 2415 and PHYS 2426.	
	FALL	4		Microprocessor Systems	С		ELEE 2330 and CSCI 1380 (or CSCI 1387).	
	ш.	3	ELEE 4303	Digital Systems Engineering II			ELEE 2330.	
YEAR		3		American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
Δ		15 Semester Total Hours						
THIRD		2	ELEE 3230	Electrical Engineering II Lab	С		ELEE 3225.	
		3	ELEE 3340	Probability and Statistics for Electrical Engineers	С		MATH 2414	
	ING	3	ELEE 3302	Electronics II			ELEE 3301 and ELEE 3321.	
	SPRING	3	ELEE X3XX	Technical Elective				Must be a 3000 or 4000 level ELEE Technical Elective Course.
		3		Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)
	14 Semester Total Hours							
		14			141			
		14 ! H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		! Н	Course # ELEE 4321	Course Title Automatic Control Systems		GEC	ELEE 3321 and MATH 3341.	Additional Notes
		3 3	Course # ELEE 4321 ELEE 4328	Course Title Automatic Control Systems Solid State Electronic Devices		GEC	ELEE 3321 and MATH 3341. ELEE 3301.	Additional Notes
		! Н	Course # ELEE 4321 ELEE 4328	Course Title Automatic Control Systems		GEC	ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321.	Additional Notes
	FALL	3 3	Course # ELEE 4321 ELEE 4328 ELEE 4351	Course Title Automatic Control Systems Solid State Electronic Devices		GEC	ELEE 3321 and MATH 3341. ELEE 3301.	Additional Notes
		3 3 3	Course # ELEE 4321 ELEE 4328 ELEE 4351	Course Title Automatic Control Systems Solid State Electronic Devices Communication Theory	Grade	GEC 040	ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321. ELEE 3230 ELEE 3435, and credit/registration in at least 9	Additional Notes
		3 3 3 3 3	Course # ELEE 4321 ELEE 4328 ELEE 4351 ELEE 4361 PHIL 2326 Semester Tot	Course Title Automatic Control Systems Solid State Electronic Devices Communication Theory Senior Design I Ethics, Technology, and Society (Core) al Hours	Grade		ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321. ELEE 3230 ELEE 3435, and credit/registration in at least 9	
FOURTH YEAR		3 3 3 3 3 4 15	Course # ELEE 4321 ELEE 4328 ELEE 4351 ELEE 4361 PHIL 2326 Semester Tot ELEE X3XX	Course Title Automatic Control Systems Solid State Electronic Devices Communication Theory Senior Design I Ethics, Technology, and Society (Core) al Hours Technical Elective	Grade		ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321. ELEE 3230 ELEE 3435, and credit/registration in at least 9	Must be a 3000 or 4000 level ELEE Technical Elective
		3 3 3 3 3 15 3 3	Course # ELEE 4321 ELEE 4328 ELEE 4351 ELEE 4361 PHIL 2326 Semester Tot ELEE X3XX ELEE X3XX	Course Title Automatic Control Systems Solid State Electronic Devices Communication Theory Senior Design I Ethics, Technology, and Society (Core) al Hours Technical Elective Technical Elective	Grade		ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321. ELEE 3230 ELEE 3435, and credit/registration in at least 9 credits of 4000 level ELEE coursework.	
FOURTH YEAR		3 3 3 3 3 4 15	Course # ELEE 4321 ELEE 4328 ELEE 4351 ELEE 4361 PHIL 2326 Semester Tot ELEE X3XX ELEE X3XX	Course Title Automatic Control Systems Solid State Electronic Devices Communication Theory Senior Design I Ethics, Technology, and Society (Core) al Hours Technical Elective	Grade		ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321. ELEE 3230 ELEE 3435, and credit/registration in at least 9	Must be a 3000 or 4000 level ELEE Technical Elective Must be a 3000 or 4000 level ELEE Technical Elective
FOURTH YEAR		3 3 3 3 3 15 3 3	Course # ELEE 4321 ELEE 4328 ELEE 4351 ELEE 4361 PHIL 2326 Semester Tot ELEE X3XX ELEE X3XX ELEE 4362	Course Title Automatic Control Systems Solid State Electronic Devices Communication Theory Senior Design I Ethics, Technology, and Society (Core) al Hours Technical Elective Technical Elective Senior Design II Government/Political Science (Core)	Grade		ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321. ELEE 3230 ELEE 3435, and credit/registration in at least 9 credits of 4000 level ELEE coursework.	Must be a 3000 or 4000 level ELEE Technical Elective Must be a 3000 or 4000 level ELEE Technical Elective See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
FOURTH YEAR		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Course # ELEE 4321 ELEE 4328 ELEE 4351 ELEE 4361 PHIL 2326 Semester Tot ELEE X3XX ELEE X3XX ELEE 4362	Course Title Automatic Control Systems Solid State Electronic Devices Communication Theory Senior Design I Ethics, Technology, and Society (Core) all Hours Technical Elective Technical Elective Senior Design II Government/Political Science (Core) Integrative/Experiential Learning Option (Core)	Grade	040	ELEE 3321 and MATH 3341. ELEE 3301. ELEE 3340 and ELEE 3321. ELEE 3230 ELEE 3435, and credit/registration in at least 9 credits of 4000 level ELEE coursework.	Must be a 3000 or 4000 level ELEE Technical Elective Must be a 3000 or 4000 level ELEE Technical Elective See General Education Core for more details

Graduation Requirements

Progression requirements: Students must receive a grade of 'C' or better in all courses that are prerequisites or corequisites for electrical engineering courses.

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

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.

125 TOTAL HOURS (54) TOTAL ADVANCED HOURS Approved: Wednesday, March 27, 2019 Revised: Friday, May 10, 2019

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