The University of Texas Rio Grande Valley

Bachelor of Science in Computer Engineering(BSCE) **Computer Engineering**

2021-2022

			Hardware Trac				Degree Plan Tentative Pending University Approval
	! Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	Choose 1	Communication (Core)	С		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		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.
	1		Introduction to Computer Engineering	С			
-AL	3	POLS 2305	U.S. Federal Govt & Politics		070		Complete three credit hours from the opproved core curriculum
	3	Choose 1	Integrative and Experiential Learning (Core)		090		Complete three credit hours from the approved core curriculum, except PHIL 2326, in addition to the required labs. See degree plan.
YEAR		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.
SI	14	Semester Total H	ours				
	3	Choose 1	Communication (Core)	С		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.
	4	MATH 2414	Calculus II	С		MATH 2413 with a grade of 'C' or better.	
SPRING	3	CSCI 1370	Computer Science I for Majors	С		Grade of 'C' or better in any of the following: MATH 1314, MATH 1414 or placement in a higher level Math course (MATH 2412, MATH 2413) and credit for or concurrent enrollment in CSCI 1101 or CMPE 1101. Co-requisite: CSCI 1170.	
	1	CSCI 1170	Computer Science I Laboratory for Majors	С		Co-requisites: CSCI 1370.	
			Physics for Scientists and Engineers I		000	MATH 2413 and concurrent enrollment in MATH 2414.	1 hour of lab for Core 090. See General Education Core for more
	4	PHYS 2425	(Core)		030		details.
	15	Semester Total H	(Core) ours	Min			
			(Core) ours	Min	GEC	Prerequisite	details. Additional Notes
	15	Semester Total H	(Core) ours	Min.	GEC		
	15 ! Н	Semester Total H Course #	(Core) ours ^{Course Title} Mathematics for Electrical and	Min. Grade	GEC	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or	
ALL	15 ! Н З	Semester Total H Course # MATH 2346	(Core) ours Course Title Mathematics for Electrical and Computer Engineers	Min. Grade C C	GEC	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or	
FALL	15 1 H 3 3	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1	(Core) ourse Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core)	Min. Grade C	GEC 080 060	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170].	Additional Notes
EAR FALL	15 ! H 3 3 3	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 CMPE 2330	(Core) ourse Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I	Min. Grade C C C	GEC 080 060	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101.	Additional Notes Additional Notes See General Education Core for course options. See General Education Core for more details.
D YEAR FALL	15 ! H 3 3 3 3 3 3 3 1	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 CMPE 2330 CMPE 2130	(Core) ourse Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab	Min. Grade C	GEC 080 060	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170].	Additional Notes Additional Notes See General Education Core for course options. See General Education Core for more details.
COND YEAR FALL	15 ! H 3 3 3 3 3 3 3 1 16	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H	(Core) ours Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours	Min. Grade C C C C	GEC 080 060	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101. Credit/registration for CMPE/ELEE 2330.	Additional Notes Additional Notes See General Education Core for course options. See General Education Core for more details.
SECOND YEAR FALL	15 ! H 3 3 3 3 3 3 3 1	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H	(Core) Ours Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours Algorithms and Data Structures	Min. Grade C C C	GEC 080 060	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101.	Additional Notes See General Education Core for course options. See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327
SECOND YEAR FALL	15 ! H 3 3 3 3 3 3 3 1 16	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H	(Core) ours Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours	Min. Grade C C C C C C	GEC 080 060	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101. Credit/registration for CMPE/ELEE 2330. Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380]. PHYS 2425.	Additional Notes See General Education Core for course options. See General Education Core for more details.
ING FALL	15 ! H 3 3 3 3 3 3 3 1 16 3	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H CSCI 3333 PHYS 2426 CMPE 2320	(Core) ours Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours Algorithms and Data Structures Physics for Scientists and Engineers II (Core) Electric Circuits I	Min. Grade C C C C C C C C	GEC 080 060 030	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101. Credit/registration for CMPE/ELEE 2330. Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380]. PHYS 2425. Grade of 'C' or better in MATH 2414 and CMPE 1101/ELEE 1101 and credit/registration for PHYS 2426.	Additional Notes See General Education Core for course options. See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327 1 hour of lab for Core 090. See General Education Core for more
SECOND YEAR SPRING FALL	15 1 3 3 3 3 3 3 3 3 3 1 16 3 4 3 1	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H CSCI 3333 PHYS 2426 CMPE 2320 CMPE 2120	(Core) ours Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours Algorithms and Data Structures Physics for Scientists and Engineers II (Core) Electric Circuits I Electric Circuits I Lab	Min. Grade C C C C C C C C C C	GEC 080 060	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101. Credit/registration for CMPE/ELEE 2330. Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380]. PHYS 2425. Grade of 'C' or better in MATH 2414 and CMPE 1101/ELEE 1101 and	Additional Notes See General Education Core for course options. See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327 1 hour of lab for Core 090. See General Education Core for more
SECOND YEAR SPRING FALL	15 1 3 4	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H CSCI 3333 PHYS 2426 CMPE 2320 CMPE 2120	(Core) ours Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours Algorithms and Data Structures Physics for Scientists and Engineers II (Core) Electric Circuits I	Min. Grade C C C C C C C C C C	GEC 080 060 030 070	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101. Credit/registration for CMPE/ELEE 2330. Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380]. PHYS 2425. Grade of 'C' or better in MATH 2414 and CMPE 1101/ELEE 1101 and credit/registration for CMPE 2320 or ELEE 2305.	Additional Notes See General Education Core for course options. See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327 1 hour of lab for Core 090. See General Education Core for more
SECOND YEAR SPRING FALL	15 ! H 3 3 3 3 3 3 1 16 3 3 4 3 1 3 3 3	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H CSCI 3333 PHYS 2426 CMPE 2320 CMPE 2320 CMPE 2120 POLS 2306 CHEM 1309	(Core) Ours Course Title Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours Algorithms and Data Structures Physics for Scientists and Engineers II (Core) Electric Circuits I Electric Circuits I Lab Texas Government & Politics Chemistry for Engineers	Min. Grade C C C C C C C	GEC 080 060 030 070	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101. Credit/registration for CMPE/ELEE 2330. Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380]. PHYS 2425. Grade of 'C' or better in MATH 2414 and CMPE 1101/ELEE 1101 and credit/registration for CMPE 2320 or ELEE 2305. MATH 1314, MATH 1414, MATH 2412, MATH 2413 or with a grade of "C" or higher.	Additional Notes See General Education Core for course options. See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327 1 hour of lab for Core 090. See General Education Core for more details. OR CHEM 1311
SECOND TEAK SPRING FALL	15 ! H 3 3 3 3 3 3 1 16 3 3 4 3 1 3 3 3 1 16 3 3 1 13 3 3 1 1 3 3 1 1 3 3 1 1	Semester Total H Course # MATH 2346 CSCI 2380 Choose 1 Choose 1 CMPE 2330 CMPE 2130 Semester Total H CSCI 3333 PHYS 2426 CMPE 2320 CMPE 2320 CMPE 2120 POLS 2306 CHEM 1309	(Core) Ours Course Title Mathematics for Electrical and Computer Engineers Computer Engineers Computer Science II Social and Behavioral Sciences (Core) American History (Core) Digital Systems Engineering I Digital Systems Engineering I Lab Ours Algorithms and Data Structures Physics for Scientists and Engineers II (Core) Electric Circuits I Electric Circuits I Lab Texas Government & Politics Chemistry for Engineers Lab	Min. Grade C C C C C C C	GEC 080 060 030 070	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better. Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]. Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101. Credit/registration for CMPE/ELEE 2330. Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380]. PHYS 2425. Grade of 'C' or better in MATH 2414 and CMPE 1101/ELEE 1101 and credit/registration for CMPE 2320 or ELEE 2305. MATH 1314, MATH 1414, MATH 2412, MATH 2413 or with a grade of	Additional Notes See General Education Core for course options. See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327 1 hour of lab for Core 090. See General Education Core for more details.

		Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	CSCI 3340	Software Engineering I	С		Grade of C or better in: [3 advanced hours in CSCI or CMPE] and [CSCI 2380 or CMPE 2380].	
	4	CMPE 3437	Microprocessor Systems	С		Grade of C or better in: [CMPE/ELEE 2330] and CMPE/CSCI 1370 (or CMPE/CSCI 1378).	
	3	MATH 3341	Differential Equations	С		MATH 2414 with a grade of 'C' or better.	
rr Fall	3	CSCI 3334	Systems Programming	С		Grade of C or better in: [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437].	
ID YEAR	4		Electronics for Computer Engineering	С		[CMPE 2320 or ELEE 2305] and [CMPE 2330 or ELEE 2330] and [ELEE 2105 or CMPE 2120] with a grade of C or better.	
Ë.	17	Semester Total H	ours				
	3		Systems Lab Ethics, Technology, and Society (Core)	С	040	CMPE 3437 or ELEE 3435.	
SPRING	3		Signals and Systems	с		Grade of C or better in: CMPE 2320 or ELEE 2305; and credit/registration for MATH 3341.	
PR	3	CMPE 4375	Introduction to VLSI Design	С		Grade of C or better in: CMPE/ELEE 2330 and CMPE 3403.	
0	3	CMPE 4335	Computer Architecture	с		Grade of C or better in: [CSCI 2333 or CMPE 2333] and [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388].	
	3		Digital Systems Engineering II	С		Grade of C or better in: CMPE/ELEE 2330 or consent of instructor.	
	11	Semester Total H	ours				
	і н	Course #	Course Title	Min.	GEC	Prorequisite	Additional Notes
	! H		Course Title	Grade	GEC	Prerequisite	Additional Notes
	! н З	CMPE 3343	Probability and Statistics			Prerequisite Math 2414 with a grade of 'C' or better.	Additional Notes
		CMPE 3343 or STAT 3337	Probability and Statistics	Grade C			See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328.
FALL	3	CMPE 3343 or STAT 3337 Choose 1	Probability and Statistics	Grade C C			See General Education Core for more details.
FALL	3	CMPE 3343 or STAT 3337 Choose 1 Choose 1	Probability and Statistics American History (Core)	Grade C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: CMPE 3437 or ELEE 3435.	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one
YEAR FALL	3 3 3 3 3 3	CMPE 3343 or STAT 3337 Choose 1 Choose 1 CMPE 4390 CMPE 4373	Probability and Statistics American History (Core) Prescribed Elective Communications Networks Senior Design I Hardware	Grade C C	060	Math 2414 with a grade of 'C' or better.	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one
(TH YEAR FALL	3 3 3 3 3 3 3	CMPE 3343 or STAT 3337 Choose 1 Choose 1 CMPE 4390 CMPE 4373 5 Semester Total H	Probability and Statistics American History (Core) Prescribed Elective Communications Networks Senior Design I Hardware	Grade C C C C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: CMPE 3437 or ELEE 3435. [Grade of C or better in: CSCI 3340 or CMPE 3340] and consent of	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective.
DURTH YEAR FALL	3 3 3 3 3 3	CMPE 3343 or STAT 3337 Choose 1 Choose 1 CMPE 4390 CMPE 4373 5 Semester Total H	Probability and Statistics American History (Core) Prescribed Elective Communications Networks Senior Design I Hardware	Grade C C C C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: CMPE 3437 or ELEE 3435. [Grade of C or better in: CSCI 3340 or CMPE 3340] and consent of instructor.	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one
FOURTH YEAR	3 3 3 3 3 3 3 3 2	CMPE 3343 or STAT 3337 Choose 1 Choose 1 CMPE 4390 CMPE 4373 Semester Total H Choose 1	Probability and Statistics American History (Core) Prescribed Elective Communications Networks Senior Design I Hardware	Grade C C C C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: CMPE 3437 or ELEE 3435. [Grade of C or better in: CSCI 3340 or CMPE 3340] and consent of	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective.
FOURTH YEAR SPRING FALL	3 3 3 3 3 3 3 3 2	CMPE 3343 or STAT 3337 Choose 1 Choose 1 CMPE 4390 CMPE 4373 Semester Total H Choose 1 CMPE 3226	Probability and Statistics American History (Core) Prescribed Elective Communications Networks Senior Design I Hardware ours Creative Arts (Core)	Grade C C C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: CMPE 3437 or ELEE 3435. [Grade of C or better in: CSCI 3340 or CMPE 3340] and consent of instructor. Grade of C or better in: [ELEE 2330 or CMPE 2330] and [ELEE 2130 or CMPE 2130] and credit/registration in [ELEE 3321 or CMPE 3322] and	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective. See General Education Core for course options.
FOURTH YEAR	3 3 3 3 3 3 3 3 2	CMPE 3343 or STAT 3337 Choose 1 Choose 1 CMPE 4390 CMPE 4373 Semester Total H Choose 1 CMPE 3226 CSCI 4334 Choose 1	Probability and Statistics American History (Core) Prescribed Elective Communications Networks Senior Design I Hardware ours Creative Arts (Core) Electrical Engineering I Lab Operating Systems Prescribed Elective	Grade C C C C C C C C C C C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: CMPE 3437 or ELEE 3435. [Grade of C or better in: CSCI 3340 or CMPE 3340] and consent of instructor. Grade of C or better in: [ELEE 2330 or CMPE 2330] and [ELEE 2130 or CMPE 2130] and credit/registration in [ELEE 3321 or CMPE 3322] and [CMPE 3403 or (both ELEE 3301 and ELEE 3101)]. Grade of C or better in: [CSCI 2333 or CMPE 2333] and [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388].	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective.
FOURTH YEAR	3 3 3 3 3 3 3 3 1 1 3 3 2 2 3 3	CMPE 3343 or STAT 3337 Choose 1 Choose 1 CMPE 4390 CMPE 4373 Semester Total H Choose 1 CMPE 3226 CSCI 4334 Choose 1	Probability and Statistics American History (Core) Prescribed Elective Communications Networks Senior Design I Hardware ours Creative Arts (Core) Electrical Engineering I Lab Operating Systems Prescribed Elective Senior Design II Hardware	Grade C C C C C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: CMPE 3437 or ELEE 3435. [Grade of C or better in: CSCI 3340 or CMPE 3340] and consent of instructor. Grade of C or better in: [ELEE 2330 or CMPE 2330] and [ELEE 2130 or CMPE 2130] and credit/registration in [ELEE 3321 or CMPE 3322] and [CMPE 3403 or (both ELEE 3301 and ELEE 3101)]. Grade of C or better in: [CSCI 2333 or CMPE 2333] and [CSCI 2380 or	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective. See General Education Core for course options.

Major Graduation Requirements

1. All students must complete a two-semester capstone senior design project, represented by CMPE 4371 and CMPE 4372 or CMPE 4373 and CMPE 4374 in the degree plan. This project must be of substantial scope and complexity, demonstrate competencies from across the curriculum (in particular, the ability to design computer software, electronic hardware and integrate the two in systems) and address the social, economic and ethical consequences of the project.

2. All courses in the major requirements including the concentration must be completed with a grade of 'C' or better.

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.