

		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	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.		
		1	CSCI 1101	Introduction to Computer Science	C				
		3	CSCI 1370	Engineering Computer Science I	C		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). Co-requisites: CMPE/CSCI 1101 and [CSCI/CMPE 1170 or CSCI/CMPE 1178].		
		1	CSCI 1170	Engineering Computer Science I Laboratory	C		Corequisite: One of the following: CMPE 1370, CSCI 1370, CMPE 1378, CSCI 1378		
			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.	
		12 Semester Total Hours							
FIRST YEAR	SPRING	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 1302 or ENGL 1305 or ENGL 1388(H)	
		4	MATH 2414	Calculus II			MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
		4	Choose 1	Life and Physical Sciences (Core)		030		MUST BIOL 1406 or BIOL 2401 or CHEM 1311 or PHYS 1401 or PHYS 2425	
		3	Choose 1	American History (Core)		060		HIST 1301 OR HIST 1387 OR HIST/MASC 2327	
		3	CSCI 2380	Computer Science II	C		Grade of C or better in: [CSCI 1370 or CSCI 1378 or CMPE 1370 or CMPE 1378] and [CSCI 1170 or CSCI 1178 or CMPE 1170 or CMPE 1178].	OR CSCI 2388	
		17 Semester Total Hours							
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
SECOND YEAR	FALL	3	COMM 1315	Public Speaking		090			
		4	Choose 1	Life and Physical Sciences (Core)		030		MUST be BIOL 1407 or BIOL 2402 or CHEM 1312 or PHYS 1402 or PHYS 2426 to pair with previously taken 030 course	
		3	CSCI 2344	Programming in Unix/ Linux Environment	C		Grade of C or better in: [CSCI 1370 or CSCI 1378 or CMPE 1370 or CMPE 1378] and [CSCI 1170 or CSCI 1178 or CMPE 1170 or CMPE 1178].		
		3	CSCI 2333	Computer Organization and Assembly Language	C		Grade of C or better in: [CSCI 1370 or CSCI 1378 or CMPE 1370 or CMPE 1378] and [CSCI 1170 or CSCI 1178 or CMPE 1170 or CMPE 1178].		
			13 Semester Total Hours						
	SECOND YEAR	SPRING	3	PHIL 2326	Ethics, Technology and Society (Core)		040		
3			CSCI 3310	Mathematical Foundations of Computer Science	C		MATH 2413 or MATH 2487 with grade of 'C' or better; and [CSCI 1370 or CMPE 1370 or CSCI 1378 or CMPE 1378] and [CSCI 1170 or CSCI 1178 or CMPE 1170 or CMPE 1178].		
4			Choose 1	Basic Science (Support Course)				Choose one course not completed in the Genral Education Core: BIOL 1406 or BIOL 2401 or CHEM 1311 or PHYS 1401 or PHYS 2425	
3			Choose 1	Object Oriented Programming, Java or Visual Basic or Object Oriented Programming in C#	C		Grade of C or better in: [CSCI 1370 or CSCI 1378 or CMPE 1370 or CMPE 1378] and [CSCI 1170 or CSCI 1178 or CMPE 1170 or CMPE 1178].	CSCI 3326 OR CSCI 3327 OR CSCI 3328	
3	ELEE 2330	Digital Systems Engineering I			Corequisite: ELEE 2130	MATH 2413 recommended (not required)			
1	ELEE 2130	Digital Systems Engineering I Lab			Corequisite: ELEE 2330	MATH 2413 recommended (not required)			
		17 Semester Total Hours							

		! H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR	FALL	3	CSCI X3XX	CSCI Advanced Technical Elective				See degree plan for options.
		3	CSCI 3333	Algorithms and Data Structures	C		Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388].	
		3	Choose 1	Advanced Free Elective				
		3	ENGL 3342	Technical Communication				6 hours of English.
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details. Options: POLS 2305 or POLS 2385 (H)
15 Semester Total Hours								
THIRD YEAR	SPRING	3	CSCI 3340	Software Engineering I	C		Grade of C or better in: [3 advanced hours in CSCI or CMPE] and [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388].	
		3	Choose 1	CS Electives - Databases, Networking, and Operating Systems	C		CSCI 3333 for Databases; CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388 and CSCI 2333 or CMPE 2333 for Networking, Architecture, and OS	Choose from: CSCI 4333 Database Design and Implementation or CSCI 4334 Operating Systems or CSCI 4335 Computer Architecture or CSCI 4345 Computer Networks
		3	MATH 2318	Linear Algebra				MATH 2413 (or MATH 2487) with a grade of 'C' or better.
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details. Options: POLS 2306 or POLS 2386 (H)
		3	CSCI 3336	Organization of Programming Languages	C			Grade of C or better in: [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388] and [CSCI 3326 or CMPE 3326 or CSCI 3327 or CMPE 3327 or CSCI 3328 or CMPE 3328].
15 Semester Total Hours								
		! H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	FALL	3	Choose 1	CS Electives - Databases, Networking, and Operating Systems	C		CSCI 3333 for Databases; CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388 and CSCI 2333 or CMPE 2333 for Networking, Architecture, and OS	Choose from: CSCI 4333 Database Design and Implementation or CSCI 4334 Operating Systems or CSCI 4335 Computer Architecture or CSCI 4345 Computer Networks
		3	CSCI 4325	Automata, Formal Languages, and Comp	C		Grade of C or better in: CSCI 3333 or CMPE 3333.	
		3	CSCI X3XX	CSCI Advanced Technical Elective				See degree plan for options.
		2	Choose 1	Free Elective - Any Level				
		3	Choose 1	Support Courses - Probability				STAT 3337 OR ELEE 3340 OR STAT 3301
		3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
17 Semester Total Hours								
FOURTH YEAR	SPRING	3	CSCI X3XX	CSCI Advanced Technical Elective				See degree plan for options.
		3	Choose 1	Advanced Free Elective				
		3	Choose 1	American History (Core)		060		HIST 1302 OR HIST 1388 OR HIST/MASC 2328
		3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
		3	Choose 1	Free Elective - Any Level				
		3	CSCI 4390	Senior Project				Grade of C or better in CSCI 3340 or CMPE 3340 and consent of instructor
18 Semester Total Hours								

Graduation Requirements

All courses in the Computer Science Core must be completed with a grade 'C' or better. All courses in Section 2a-Programming Language and 2b-Datatabases, Networking, and Operating Systems must be completed with a grade of 'C' or better.

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.	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.
Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.	

124 TOTAL HOURS
(48) TOTAL ADVANCED HOURS