

	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes		
FIRST YEAR	FALL	3	Choose 1	Communication	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 General Education Core for options.	
		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				
		4	CSCI 1470	Computer Science I	C		Grade 'C' or better in any of the following: MATH 1314, MATH 1414 or placement in a higher level Math courses (MATH 2412, MATH 2413) and credit for or concurrent enrollment in CSCI 1101 or CMPE 1101 or EECE 1101		
		UNIV	1301 Learning Framework 1101 Academic and Career Success 1001/1300 Living and Working by Design				As required, based on a number of factors such as credit hours earned, TSI status, high school rank, major declaration, etc.		
<b>12 Semester Total Hours</b>									
FIRST YEAR	SPRING	3	Choose 1	Communication	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 General Education Core for options.	
		4	MATH 2414	Calculus II			MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
		3	Choose 1	American History			060		HIST 1301 or HIST 2327
		3	CSCI 2380	Computer Science II	C			Grade of C or better in: [[CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]] or CSCI 1470 or CSCI 1390.	
<b>13 Semester Total Hours</b>									
	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			030/ 090	Pre-requisites vary	Choose one from: BIOL 1406, BIOL 1407, BIOL 2401, BIOL 2402, only one from either CHEM 1311 or CHEM 1309, CHEM 1312, only one from either PHYS 1401 or PHYS 2425, only one from either PHYS 1402 or PHYS 2426
		3	CSCI 2344	Programming in Unix/ Linux Environment	C			Grade of C or better in: CSCI 1470 or CSCI 1390 or [ [CSCI 1370 or CSCI 1378 or CMPE 1370 or CMPE 1378] and [CSCI 1170 or CSCI 1178 or CMPE 1170 or CMPE 1178] ]	
		3	Choose 1	Object Oriented Programming in Java or Object-Oriented Programming Object Oriented Programming in C# or Object Oriented Programming in Python	C			Grade of C or better in: [[CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]] or CSCI 1470 or CSCI 1390.	CSCI 3326 or CSCI 3327 or CSCI 3328 or CSCI 3329
		3	CSCI 2333	Computer Organization and Assembly Language	C			Grade of C or better in: CSCI 1470 or CSCI 1390 or [ [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170] ].	
<b>16 Semester Total Hours</b>									
SECOND YEAR	SPRING	3	PHIL 2326	Ethics, Technology and Society			040		
		3	CSCI 3310	Mathematical Foundations of Computer Science	C			Grade of C or better in: [MATH 2413 or MATH2487] and [CSCI 1470 or CSCI 1390 or [ [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	Life and Physical Sciences			030/ 090	Pre-requisites vary	Choose second course from: BIOL 1406, BIOL 1407, BIOL 2401, BIOL 2402, only one from either CHEM 1311 or CHEM 1309, CHEM 1312, only one from either PHYS 1401 or PHYS 2425, only one from either PHYS 1402 or PHYS 2426
		3	Choose 1	Free Elective - Any Level					
		3	EECE 2306	Digital Systems Engineering I				Grade of C or better or registration in CMPE 1101 or ELEE 1101 or CSCI 1101 or EECE 1101.	MATH 2413 recommended (not required)
1	EECE 2106	Digital Systems Engineering I Lab				Grade of C or better or registration in [CMPE 2330 or ELEE 2330 or EECE 2306].	MATH 2413 recommended (not required)		
<b>17 Semester Total Hours</b>									

CORE: The 2024-2026 list of core courses can be found in the 2024-2026 Undergraduate Catalog: [www.utrgv.edu/catalog](http://www.utrgv.edu/catalog) > See "Core Curriculum"

**Symbols Key**

**Minimum Grade:** A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.  
**Bolded Course #:** Program Admission Requirement

**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.

	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
THIRD YEAR	FALL	3	CSCI 33XX or CSCI 43XX			Pre-requisites vary	See degree plan for options.	
		3	CSCI 3333	C		Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380].		
		3	CSCI 3336	C		Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 3326 or CMPE 3326 or CSCI 3327 or CMPE 3327 or CSCI 3328 or CMPE 3328 or CSCI 3329].		
		3	ENGL 3342			6 hours of English.		
		3	POLS 2305		070			
<b>15 Semester Total Hours</b>								
THIRD YEAR	SPRING	3	CSCI 3340	C		Grade of C or better in: [3 advanced hours in CSCI or CMPE or EECE] and [CSCI 2380 or CMPE 2380].		
		3	Choose 1	C		CSCI 3333 for Databases; [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437 or EECE 3435] for Architecture, Networking, and Operating Systems	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			MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
		3	POLS 2306		070			
		3	Choose 1			Free Elective - Any Level		
<b>15 Semester Total Hours</b>								
	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FOURTH YEAR	FALL	3	Choose 1	C		CSCI 3333 for Databases; [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437 or EECE 3435] for Architecture, Networking, and Operating Systems	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	C		Grade of C or better in: CSCI 3333 or CMPE 3333.		
		3	CSCI 33XX or CSCI 43XX			Pre-requisites vary	See degree plan for options.	
		1	Choose 1		090		Choose an additional 1-hour course from this category except PHIL 2326	
		1	Choose 1				Free Elective - Any Level	
		3	Choose 1				Support Course - Statistics	STAT 3337 or STAT 3301 or EECE 3340
		3	Choose 1		050			See General Education Core for course options.
<b>17 Semester Total Hours</b>								
FOURTH YEAR	SPRING	3	CSCI 33XX or CSCI 43XX			Pre-requisites vary	See degree plan for options.	
		3	Choose 1			Free Elective - Any Level		
		3	Choose 1		060		HIST 1302 or HIST 2328	
		3	Choose 1		080		See General Education Core for course options.	
		3	CSCI 4390				Grade of C or better in: [CSCI 3340 or CMPE 3340] and consent of instructor.	
<b>15 Semester Total Hours</b>								

120 TOTAL HOURS

(42) Advanced minimum credit hours

Revised: Tuesday, February 18th, 2025