



Bachelor of Science (BS) Cyber Security

2024-2026

		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FIRST YEAR	FALL	3	ENGL 1301	Rhetoric and Composition I	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.	One credit hour from MATH 2412 is applied to the Support Course section of the degree plan.
		4	MATH 2412	Precalculus	C	020	MATH 1314 or MATH 1414 with a grade of 'C' or better; or passing the College Algebra Exemption Test administered by the Department of Mathematics.	
		1	CYBI 1101	Introduction to Cyberspace & Informatics	C			
		3	CSCI 1380	Introduction to Programming in Python	C	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
		3	CRJU 1301	Introduction to Criminal Justice				
			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							
	SPRING	3	ENGL 1302	Rhetoric and Composition II	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.	
		3	CYBI 2322	Foundations of Systems I	C		"C" or better in Math 2412 and CSCI 1380; and must be officially admitted to the cyber security major or minor.	
		3	CYBI 2324	Foundations of Systems II	C		"C" or better in Math 2412 and CSCI 1380; and must be officially admitted to the cyber security major or minor.	
		3	CYBI 2326	Programming of Cyber Systems & Reverse Engineering	C		"C" or better in Math 2412 and CSCI 1380; and must be officially admitted to the cyber security major or minor.	
		3	STAT 2334	Applied Statistics for Health			MATH 1314, MATH 1414, MATH 1324, or MATH 1342 with a grade of 'C' or better.	
	15 Semester Total Hours							
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
SECOND YEAR		3	CYBI 3318	Cryptography			Grade of "C" or better in CYBI 2322, CYBI 2324, and CYBI 2326.	
		3	COMM 1315	Public Speaking		090		
		3	CYBI 3345	Operating Systems and Security			"C" or better in CYBI 2322, CYBI 2324, and CYBI 2326.	
		3	CYBI 4319	Digital Forensics			"C" or better in CYBI 2322, CYBI 2324, CYBI and 2326.	
		3	BLAW 3337	Business Law I			Sophomore Standing. All students pursuing a Bachelor of Business Administration, Bachelor of Arts in Economics, or Bachelor of Science in Materials Management and Logistics, or Bachelor of Science in Hospitality and Tourism Management from VCoBE, must apply for and be admitted to VCoBE before they are allowed to enroll in the Advanced Business Core and Major coursework for their degree.	Contact business.advising@utrgv.edu for permission to enroll in the course.
	15 Semester Total Hours							
		3	CYBI 3335	Data Communications and Networking			"C" or better in CYBI 2322, CYBI 2324, CYBI 2326.	
		3	CYBI 3343	Intrusion Detection, Incident Response and Information Assurance			Pre- or co-requisite in CYBI 3335.	
		3	CRJU 3316	Criminal Evidence & Proof				
		3	COMM 3313	Business and Technical Communication				
		4	Choose 1	Life and Physical Sciences		030		PHYS 1402 recommended (prerequisite: PHYS 1401). See Core Curriculum for course options. [lab credit hour (1) applied toward free elective]
	16 Semester Total Hours							

CORE: The 2024-2026 list of core courses can be found in the 2024-2026 Undergraduate Catalog: 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	CYBI 3346	Distributed and Cloud Computing Security		Pre- or co-requisite in CYBI 3335.	
		3	CYBI 3331	Software Engineering and Project Management		"C" or better in CYBI 2322, CYBI 2324, and CYBI 2326.	
		1	CYBI 3101	Certification		Sophomore, Junior, or Senior standing.	
		3	POLS 2305	U.S. Federal Govt & Politics	070		
		3	PHIL 2326	Ethics, Technology & Society	040		
		3	X3XX	Free Elective - Any Level			
	16 Semester Total Hours						
	SPRING	3	CYBI 4347	Wireless and Mobile Security		CYBI 3335.	
		4	Choose 1	Life and Physical Sciences	030		PHYS 1401 recommended (prerequisite: MATH 1314). See Core Curriculum for course options. [lab credit hour (1) applied toward free elective]
		3	CYBI 4365	Network Security		CYBI 3335.	
		3	POLS 2306	Texas Government & Politics	070		
		3	CYBI or INFS or CSCI	Prescribed Elective (Advanced Level)		Check ASSIST for prerequisites.	See program of study for course options.
	16 Semester Total Hours						
FOURTH YEAR							
	FALL	3	Choose 1	American History	060		HIST 1301 OR HIST 2327
		3	Choose 1	Creative Arts	050		See Core Curriculum for course options.
		3	INFS 3308	Business Information Infrastructure		Sophomore Standing. All students pursuing a Bachelor of Business Administration, Bachelor of Arts in Economics, or Bachelor of Science in Hospitality and Tourism Management from VCoBE, must apply for and be admitted to VCoBE before they can enroll in the Advanced Business Core and Major coursework for their degree. Prerequisites are waived for the students pursuing a Bachelor of Science in Cyber Security or a minor in Cyber Security.	Contact business.advising@utrgv.edu for permission to enroll in the course.
		1	CYBI 3101	Certification		Sophomore, Junior, or Senior standing.	
		3	CYBI or INFS or CSCI	Prescribed Elective (Advanced Level)		Check ASSIST for prerequisites.	See program of study for course options.
		3	X3XX	Free Elective - Any Level			
	16 Semester Total Hours						
	SPRING	3	CYBI 4340	Capstone Project		CYBI 3335, Senior Standing, six additional credits in 3XXX level CYBI courses and departmental approval.	
		3	CYBI or INFS or CSCI	Prescribed Elective (Advanced Level)		Check ASSIST for prerequisites.	See program of study for course options.
		3	Choose 1	American History	060		HIST 1302 OR HIST 2328
		3	Choose 1	Social and Behavioral Sciences (except courses with PHIL prefix)	080		See Core Curriculum for course options. May choose any listed course under this category except courses with PHIL prefix.
	12 Semester Total Hours						
120 TOTAL HOURS							
(42) advanced minimum credit hours							

Revised: Thursday, August 29th, 2024