

SUNY CANTON: CYBERSECURITY B.S. (2698) - FALL 2025

1 st Semester - Fall			Term	Grade	Students need to pass a total of 30 GER credits. Categories 1-5 are required and students choose three different GERs from the remaining categories.	
CITA/CYBR 152	Computer Logic	3				
CYBR 165	Survey of Cybersecurity	3				
ENGL 101	Composition and the Spoken Word (GER 1/2)	3				
MATH	Math Elective ¹ (GER 4)	3-4				
	Natural Science Elective (GER 5)	3				
2 nd Semester - Spring						Required Categories
CITA/CYBR 170	Computer Concepts & OS	3				SEM
CITA/CYBR 171	OS Use & Administration	3				CR
MATH 141	Statistics (GER 4)	3				(1) Communication: Written
	Liberal Arts Elective (GER 3)	3				
	Liberal Arts Elective (GER 6,8,9,10,11)	3			(2) Communication: Oral	
3 rd Semester - Fall					(3) Diversity: Equity, Inclusion, Social Justice	
CITA/CYBR 180	Intro to Programming	4				
CITA/CYBR 215	Database Concepts	3			(4) Mathematics & Quantitative Reasoning	
CITA/CYBR 220	Data Com & Network Tech	3			(5) Natural Science & Scientific Reasoning	
	Liberal Arts Elective (GER 7)	3				
	Liberal Arts Elective (GER 6,8,9,10,11)	3			(6) Humanities	
4 th Semester - Spring					(7) Social Science	
CITA/CYBR 204	Systems Analysis & Design (WI)**	3				
CITA/CYBR 250	Information Security	3			(8) The Arts	
	Program Elective*	3				
	Liberal Arts Elective (Any GER)	3			(9) US History & Civic Engagement	
	Liberal Arts Elective (Any GER)	3				
	Liberal Arts Elective	3			(10) World History & Global Awareness	
5 th Semester - Fall					(11) World Languages	
MATH 351	Discrete Mathematics	3				
	Network Security Elective ³	3			REPEATED CATEGORIES	
	Data Security Elective ⁴	3				
	Liberal Arts Elective	3				
	General Elective	3				
6 th Semester - Spring					Progress Notes:	
CITA/CYBR 352	Ethical Hacking & Penetration Testing	3				
	Network Security Elective ³	3				
	Data Security Elective ⁴	3				
	Liberal Arts Elective	3				
	General Elective	3				
7 th Semester - Fall						
CYBR 450	Cybersecurity Body of Knowledge	3				
	Liberal Arts Elective	3				
	UL Liberal Arts Elective	3				
	UL Liberal Arts Elective	3				
	UL Liberal Arts Elective	3				
8 th Semester - Spring						
	UL General Elective	3				
	UL Liberal Arts Elective	3				
	UL Liberal Arts Elective	3				
CYBR 485	Cybersecurity Practice OR	6				
	UL Program Elective ²	3				
	UL Program Elective ²	3				
TOTAL CREDITS (124-125)					**(WI) writing intensive course	

¹ MATH 121 or higher

² Program Elective – CYBR, CITA, JUST, DATA

³ Network Security Elective – CYBR 354, CYBR 356, CITA/CYBR 440

⁴ Data Security Elective – CITA/CYBR 360, CITA/CYBR/JUST 365, CYBR/CITA 455

* Program Elective - CYBR, CITA, JUST, students may have the option to replace the program elective with CITA 175, CITA 221, and/or CITA 441. Consult your faculty advisor.