SUNY CANTON: CYBERSECURITY (2698)
CURRICULUM CHECK SHEET - Fall 2025

1st Semester - Fall			Term	Grade
CYBR 153	Computer Logic & Algorithms	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		
2nd Semester - Spring				
CYBR 172	Computer Fundamentals	3		
MATH 141	Statistics (GER 4)	3		
	Liberal Arts Elective (GER 7)	3		
	Liberal Arts Elective (GER 3)	3		
	Liberal Arts Elective (GER 6,8,9,10,11)	3		
3rd Semester – Fall				
CYBR 181	Programming Fundamentals	4		
CYBR 216	Database Fundamentals	3		
CYBR 223	Network Fundamentals	3		
CYBR 273	OS Fundamentals	3		
	Liberal Arts Elective (GER 6,8,9,10,11)	3		
4th Semester – Spring				
CITA 204	Systems Analysis & Design (WI)**	3		
CYBR 250	Information Security	3		
	Liberal Arts Elective (Any GER)	3		
	Liberal Arts Elective (Any GER)	3		
	Liberal Arts Elective	3		
5th Semester - Fall				
MATH 351	Discrete Mathematics	3		
	Network Security Elective [3]	3		
	Data Security Elective [4]	3		
	Liberal Arts Elective	3		
	General Elective	3		
6th Semester - Spring				
CYBR 352	Ethical Hacking & Penetration Testing	3		
	Network Security Elective [3]	3		
	Data Security Elective [4]	3		
	Liberal Arts Elective	3		
	General Elective	3		
7th 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		
8th 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 (123-124)				

Students need to pass a total of 30 GER credits with a course in at least 7 of the 10 categories (four categories are required-BOLDED BELOW %)

Required Categories	SEM	GRADE
(1) Communication: Written %		
(2) Communication: Oral		
(3) Diversity: Equity, Inclusion, Social Justice %		
(4)Mathematics & Quantitative Reasoning %		
(5)Natural Science & Scientific Reasoning %		
(6) Humanities		
(7) Social Science		
(8) The Arts		
(9) US History & Civic Engagement		
(10) World History & Global Awareness		
(11) World Languages		
REPEATED CATAGORIES		
Progress Notes:		

**(WI) writing intensive course

Revised Fall 24

[1] MATH 121 or higher

[2] Program Elective – CYBR, CITA, JUST, DATA

[3] Network Security Elective – CYBR 354, CYBR 356, CYBR 440

[4] Data Security Elective – CYBR 360, CYBR/JUST 365, CYBR 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.