

**SUNY CANTON: CYBERSECURITY B.S. (2698) - FALL 2024**

1 <sup>st</sup> 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 <sup>1</sup> (GER 4)	3-4				
	Natural Science Elective (GER 5)	3				
2 <sup>nd</sup> Semester - Spring						<b>Required Categories</b>
CITA/CYBR 170	Computer Concepts & OS	3				SEM
CITA/CYBR 171	OS Use & Administration	3				CR
MATH 141	Statistics (GER 4)	3				<b>(1) Communication: Written</b>
	Liberal Arts Elective (GER 3)	3				
	Liberal Arts Elective (GER 6,8,9,10,11)	3			<b>(2) Communication: Oral</b>	
3 <sup>rd</sup> Semester - Fall					<b>(3) Diversity: Equity, Inclusion, Social Justice</b>	
CITA/CYBR 180	Intro to Programming	4				
CITA/CYBR 215	Database Concepts	3			<b>(4) Mathematics &amp; Quantitative Reasoning</b>	
CITA/CYBR 220	Data Com & Network Tech	3			<b>(5) Natural Science &amp; Scientific Reasoning</b>	
	Liberal Arts Elective (GER 7)	3				
	Liberal Arts Elective (GER 6,8,9,10,11)	3			<b>(6) Humanities</b>	
4 <sup>th</sup> Semester - Spring					<b>(7) Social Science</b>	
CITA/CYBR 204	Systems Analysis & Design (WI)**	3			<b>(8) The Arts</b>	
CITA/CYBR 250	Information Security	3			<b>(9) US History &amp; Civic Engagement</b>	
	Program Elective*	3				
	Liberal Arts Elective (Any GER)	3			<b>(10) World History &amp; Global Awareness</b>	
	Liberal Arts Elective (Any GER)	3			<b>(11) World Languages</b>	
	Liberal Arts Elective	3				
5 <sup>th</sup> Semester - Fall						
MATH 351	Discrete Mathematics	3				
	Network Security Elective <sup>3</sup>	3			REPEATED CATEGORIES	
	Data Security Elective <sup>4</sup>	3				
	Liberal Arts Elective	3				
	General Elective	3				
6 <sup>th</sup> Semester - Spring						
CITA/CYBR 352	Ethical Hacking & Penetration Testing	3			Progress Notes:	
	Network Security Elective <sup>3</sup>	3				
	Data Security Elective <sup>4</sup>	3				
	Liberal Arts Elective	3				
	General Elective	3				
7 <sup>th</sup> 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 <sup>th</sup> Semester - Spring						
	UL General Elective	3				
	UL Liberal Arts Elective	3				
	UL Liberal Arts Elective	3				
CYBR 485	Cybersecurity Practice <b>OR</b>	6				
	UL Program Elective <sup>2</sup>	3				
	UL Program Elective <sup>2</sup>	3				
<b>TOTAL CREDITS (124-125)</b>					**(WI) writing intensive course	

<sup>1</sup> MATH 121 or higher

<sup>2</sup> Program Elective – CYBR, CITA, JUST, DATA

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

<sup>4</sup> 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.