## Information Technology - Cybersecurity

## **Program Information**

**Degree Type:** AAS **Program Code:** ITCS

Degree Worksheet PDF: 2023 2024 itcs.pdf [1]

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**ITCS** 

2023\_2024\_itcs.pdf [2]

The Cybersecurity program prepares students who upon graduating wish to enter the workforce in an information security and assurance capacity with potential transfer opportunities to traditional and online bachelor's programs. Students will learn theoretical and hands on knowledge identifying IT vulnerabilitites & threats, develop security plans, and apply appropriate counter defense methods to harden systems and mitigate threats against the network, data and services. Courses in criminal law and evidence handling are incorporated. A student with a criminal record may negatively impact consideration for employment opportunities in security as background checks may be performed. Recommended High School Preparation: if available: computer hardware class, basic networking/LAN class.

Built into this program is online curriculum leveraged from the Cisco Networking Academy (on-campus) to assist the student in preparing to achieve the Cisco Certified Entry Network Technician (CCENT) and Cisco Certified Network Associate (CCNA) Security; and harnessing content from CompTIA Security+ and EC-Council Certified Ethical Hacker. Industry certifications are achieved upon passing the exams at off-campus testing centers.

Cr.	Course Title	Course Code
1-2	FRESHMAN EXPERIENCE	<u> HRD100 HRD100A</u> or <u>HRD110</u>
3		ENG101
	Introduction to College Writing	
	ENC 110 Flore anto of Tackwise	CHNV CEN ED Dagia
3	ENG 110 Elements of Technical	SUNY GEN ED Basic
	<i>Writing</i> recommended	Communication
		L
		ENG102, ENG103, ENG104,

1	1	1
		ENG105, ENG106, ENG107,
		ENG108, ENG109 or ENG110
		(ENG 110 Elements of Technical
		L
		Writing recommended)
	CHAIN CEALED Made and the	MATI 27 Jahra du da ma Chabiatia
3	SUNY GEN ED Mathematics	MAT127 Introductory Statistics with Probability recommended
4	SUNY GEN ED Natural Sciences	,
3	lab Science SUNY GEN ED Social Sciences	
		PHI202 Ethics or PHI207 Business
_	Arts, Other World Civilizations or	
	Foreign Languages	
	Liberal Arts and Sciences	
2	Introduction to Criminal Justice	CR 101
3	Criminal Evidence	CRI212 (Prereq Required)
1	Information Assurance	CIS130
1		
3	Introduction to Networking	CIS131
4	Networking Fundamentals (CCNA 1)	CIS133 (Fall only - Pre/Corequisite Required)
4	LAN/WAN Technologies (CCNA 2)	CIS134 (Spring only - Prereq
3	Network Security I	Required) CIS135 (Prereg and Coreg
	iverwork security i	Required)
3	IT Security Essentials	CIS136 (Fall only - Prereq
3	I	Required)
3 4	Server Administration	
	Server Administration	CIS232 (Prereq Required)
f	Network Security II (CCNA	CIS232 (Prereq Required) CIS235 (Fall only - Prereq
		CIS232 (Prereq Required) CIS235 (Fall only - Prereq Required) CIS245 (Spring only - Prereq
	Network Security II (CCNA CyberOps) Ethical Hacking and Defense	CIS232 (Prereq Required) CIS235 (Fall only - Prereq Required) CIS245 (Spring only - Prereq Required)
	Network Security II (CCNA CyberOps) Ethical Hacking and Defense IT Networking/Cybersecurity	CIS232 (Prereq Required) CIS235 (Fall only - Prereq Required) CIS245 (Spring only - Prereq
3	Network Security II (CCNA CyberOps) Ethical Hacking and Defense IT Networking/Cybersecurity Internship or Advanced	CIS232 (Prereq Required) CIS235 (Fall only - Prereq Required) CIS245 (Spring only - Prereq Required)
3	Network Security II (CCNA CyberOps) Ethical Hacking and Defense IT Networking/Cybersecurity Internship or Advanced Networking Technologies	CIS232 (Prereq Required) CIS235 (Fall only - Prereq Required) CIS245 (Spring only - Prereq Required) CIS278 or CIS246
3	Network Security II (CCNA CyberOps) Ethical Hacking and Defense IT Networking/Cybersecurity Internship or Advanced Networking Technologies Introduction to Internet	CIS232 (Prereq Required) CIS235 (Fall only - Prereq Required) CIS245 (Spring only - Prereq Required)
3	Network Security II (CCNA CyberOps) Ethical Hacking and Defense IT Networking/Cybersecurity Internship or Advanced Networking Technologies	CIS232 (Prereq Required) CIS235 (Fall only - Prereq Required) CIS245 (Spring only - Prereq Required) CIS278 or CIS246



	Environment or Introduction to Programming	CIS122 (Prereq Required) CIS140 (Spring only - Prereq Required)
		CIS143 (Prereq Required)
4	Electives	
64	Minimum credits required for graduation	

Recommended	1	
First Year		
First Semester	1	
1-2	HRD 100, HRD 100A or HRD 110	
3	ENG 101	
1	CIS 130	
3	CIS 131	
4	CIS 133	
3	CRJ 101	
Second		
Semester		
3	ENG 102	
3	SUNY GEN ED Mathematics	
3	CIS 135	
4	CIS 134	
3	CIS 232	
Recommended S	Second Year	
Third Semester		
3	SUNY GEN ED Social Sciences	
3	CIS 136	
3	CIS Elective - CIS 122, CIS 140 or CIS 143	
4	CIS 235	
3	CRJ 212	
Fourth Semeste	r	
4	SUNY GEN ED Natural Science lab science	
3	SUNY GEN ED GEFL, GEHU, GEOC or GETA Liberal Arts and	
	Sciences	
3	CIS 278 or CIS 246	
3	CIS 245	
4	Electives	

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