Information Technology - Cybersecurity

Program Information

Degree Type: AAS
Program Code: ITCS
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ITCS
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Microcredential: http://www.sunyacc.edu/academics/microcredentials [3]

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 vulnerabilities & 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	HRD100 HRD100A or HRD110
3	Introduction to College Writing	ENG101
3	ENG 110 *Elements of Technical Writing* recommended	SUNY GEN ED Basic Communication ENG102, ENG103, ENG104,

		ENG105, ENG106, ENG107, ENG108, ENG109 or ENG110 (ENG 110 Elements of Technical Writing recommended)
3	SUNY GEN ED Mathematics	MAT127 Introductory Statistics with Probability recommended
4	SUNY GEN ED Natural Sciences lab Science	
3	SUNY GEN ED Social Sciences	
3	SUNY GEN ED Humanites, The Arts, Other World Civilizations or Foreign Languages Liberal Arts and Sciences	PHI202 Ethics or PHI207 Business Ethics recommended
3	Introduction to Criminal Justice	CRJ101
3	Criminal Evidence	CRJ212 (Prereq Required)
1	Information Assurance	CIS130
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 Required)
3	Network Security I	CIS135 (Prereq and Coreq Required)
3	IT Security Essentials	CIS136 (Fall only - Prereq Required)
3	Server Administration	CIS232 (Prereq Required)
4	Network Security II (CCNA CyberOps)	CIS235 (Fall only - Prereq Required)
3	Ethical Hacking and Defense	CIS245 (Spring only - Prereq Required)
3	IT Networking/Cybersecurity Internship or Advanced Networking Technologies	CIS278 or CIS246
3	Introduction to Internet Development, Introduction to Programming in a Windows	CIS Elective – choose one from:

	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 First Year	
First Semester	
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 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 Semester	
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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