## CYBERSECURITY, ASSOCIATE IN APPLIED SCIENCE

## COMPUTER AND INFORMATION TECHNOLOGY

## **Program Requirements**

Program Prerequisites: None

Code	Title	Credits	Semester
equired Courses			
Select one of the BPC270	following: A+ Exam Prep:	3	
BF0270	Operating System Configuration and Support		
MST150++	Any Microsoft Windows course 1		
CIS105	Survey of Computer Information Systems	3	
CIS111	Ethics in Information Technology	3	
or ITS120	Legal, Ethical and Reg	ulatory Issues	
CIS126DL	Linux Operating System	3	
or CIS126RH	Red Hat System Admi	nistration I	
CIS156	Python Programming: Level I	3	
Select one of the	following:	3-4	
CIS190	Introduction to Networking		
CNT140AB	Introduction to Networks <sup>2</sup>		
Select one of the	following:	3-6	
CIS271DB & CIS272DB	Information Security		
	Essentials and Information		
	Security Principles <sup>3</sup>		
CIS270	Essentials of Network and Information		
	Security		
ITS110	Information Security Fundamentals <sup>4</sup>		

FYE101	Introduction to College, Career and Personal Success	1-3	
or FYE103	Exploration of Coll Personal Success	ege, Career and	
ITS240	Ethical Hacking and Network Defense	3	
<b>Restricted Electiv</b>	es		
Students must co credits from the f of courses. Cours repeated for credi	ollowing list es cannot be	12-18	
Courses that are a specialization in ( Linux System Adr Microsoft System Cisco Network Ad Security, Cyber Er Critical Infrastruc	Cyber Operations, ninistration, a Administration, Iministration and Igineering, and/or		
Specialization I: Cy Credits)	vber Operations (17		
BPC170	A+ Exam Prep: Computer Hardware Configuration and Support		
CIS238DL	Linux System Administration		
or CIS238RI	HRed Hat System A	dministration II	
CIS290AC	Computer Information Systems Internship		
or CIS298A0	Special Projects		
ITS291	Computer Forensics Foundations		
ITS292	Advanced Computer Forensics		
Specialization II: L Administration (15			
CIS238DL	Linux System Administration		
or CIS238RH	Red Hat System A	dministration II	
CIS239DL	Linux Shell Scripting		
CIS240DL	Linux Network Administration		
CIS271DL	Linux Security		
or CIS271RH	HRed Hat System A	dministration IV	
CIS275DL	Linux Capstone		
Specialization III: 0 Administration (15			

BPC274	Advanced Server Computer	 CIS119DO	Introduction to Oracle: SQL		
	Maintenance: Server+ Prep	CIS276++	Any SQL Database course		
CIS121AH	Microsoft	 Specialization VI	: Critical		
	PowerShell/	Infrastructure (16 Credits)			
	Command Line	CIS143	Introduction		
	Operations		to Critical		
CIS239DL	Linux Shell		Infrastructure		
	Scripting		Protection		
MST160	Azure	 CIS201	Introduction		
	Administrator		to Operational		
CLD110	Amazon Web		Technology		
	Services Cloud	CIS202	Introduction		
	Foundations		to Smart Grid		
MST260	Microsoft		Security		
	Azure Cloud	CIS203	Principles		
	Development and		of the Risk		
	Operations		Management		
CLD120	Amazon Web		Framework		
	Services Cloud	CNT150AB	Switching,		
	Architect Associate		Routing, and		
On a sistimation 11/1			Wireless		
Specialization IV: Administration an			Essentials		
Credits)	a security (12	General Elective			
CNT150AB	Switching,	Select additiona		0-3	
CINTISOAD	Routing, and	 level or higher to	semester credits. It		
	Wireless		d to select from the		
	Essentials	restricted electiv			
CNT160AB Enterprise		 General Educati			
	Networking,	Core			
	Security, and	First-Year Compo	osition		
	Automation	ENG101	First-Year	3	
CNT202	Cisco Secure	 LINGTOT	Composition	5	
	Firewall	or ENG107	First-Year Composition for ESL		
	Appliance	ENG102	First-Year	3	
	Configuration	ENGIOZ	Composition	3	
or CN1205	Cisco Certified Network Associate Security	 or ENG108	First-Year Composition for ESL		
On a sislimation Mad		Oral Communica	•		
Specialization V: ( (18 Credits)	Syber Engineering	 Select one of the		3	
CIS162++	Any C	COM100	Introduction	5	
01310211	Programming:	 COMTOU	to Human		
	Level I course <sup>5</sup>		Communication <sup>7</sup>		
CIS227	Assembly	COM110	Interpersonal		
0.0111	Language	 COMITO	Communication		
CIS238DL	Linux System	 COM225	Public Speaking		
	Administration	COM230	Small Group		
or CIS238R	HRed Hat System Administration II	 00111200	Communication		
CIS250	Vanagement	 Critical Reading			
	of Information	Select one of the	e following:	0-3	
	Systems	CRE101	College Critical		
CIS262++	Any C	 0	Reading and		
	Programming:		Critical Thinking		
	Level II course	Or equivalent as indicated by			
		or equivalent			
Select one of t	the following:	 assessment			
Select one of t	the following:		,		

Any approved general education course(s) in the Mathematics area	3-6	
Distribution		
Humanities, Arts and Design		
Any approved general education course(s) from the Humanities, Arts and Design area	3	
Social and Behavioral Sciences		
Any approved general education course(s) in the Social and Behavioral Sciences area	3	
Natural Sciences		
Any approved general education course(s) in the Natural Sciences area	4	

- <sup>1</sup> MST150++ required for Microsoft System Administration specialization and Critical Infrastructure specialization
- <sup>2</sup> CNT140AB Introduction to Networks required for Cisco Network Administration and Security specialization and Critical Infrastructure specialization
- <sup>3</sup> CIS271DB Information Security Essentials and CIS272DB Information Security Principles required for Critical Infrastructure specialization
- <sup>4</sup> ITS110 Information Security Fundamentals required for Cyber Operations specialization
- <sup>5</sup> Students intending to transfer to U of A South should take CIS162 C Programming I
- <sup>6</sup> Consult with a faculty advisor, program director, and/or academic advisor to identify coursework that best aligns with academic and professional goals.
- <sup>7</sup> COM100 Introduction to Human Communication required for students intending to transfer to ASU West to earn a Bachelor of Science in Applied Computing (Cybersecurity).