

# **Network Security Administration Program**

## **2018-2019**

### **Associate of Applied Science Degree**

The Network Security Administration Associate of Applied Science degree program prepares students for careers in cybersecurity technology. The A.A.S. degree is a two-year program that will prepare students with networking skills and the requisite network security concepts and best practices required to implement and administer secure network environments and will lead to industry-recognized certifications. It also includes all related coursework to complete A.A.S. degree requirements.

This Network Security Administration Associate of Applied Science program will prepare students for a career in the cybersecurity industry. The technical courses in this A.A.S degree program combine both networking concepts and security fundamentals with a focus on best practices required to implement and administer secure network environments. The program integrates knowledge from communication, social sciences, and math with the theory and practice of information technology to prepare students for employment in the industry. It will also provide opportunities for those employed in the information technology field to enhance their knowledge and credentials and advance in their careers.

During the program students are encouraged to work toward a variety of industry certifications in addition to the degree. Students will graduate with a Network Security Administration Associate of Applied Science Degree upon successful completion of this program. Entry-level position responsibilities in cybersecurity include, but are not limited to: maintaining computer network infrastructure and security; securing computer assets connected to the Internet; installing, configuring and securing PC systems and mobile devices; configuring and securing remote access networks; providing technical support and configuring and repairing endpoint devices.

Career opportunities for CyberSecurity professionals are varied and immediate. The National Initiative for CyberSecurity Education (NICE) has identified dozens of job titles that require security skills (see [csrc.nist.gov/nice/framework/](http://csrc.nist.gov/nice/framework/)). Additionally, projections are that by the end of the decade, all or nearly all intermediate-level computer technical, developmental or implementation careers will require some level of security training.

**This is a selective enrollment program. Successful completion of each semester or permission of the instructor is required to continue to the next semester. Successful completion of the technical certificate or permission of the instructor is required for enrollment in third and fourth semester courses.**

**For requirements and admission procedures, go to**

[http://www.nic.edu/programs/viewprogram.aspx?program\\_id=20](http://www.nic.edu/programs/viewprogram.aspx?program_id=20) or contact the Career and Technical Education Advisor at (208) 769-3371.

#### **First Semester**

<b>Course No</b>	<b>Title</b>	<b>Credits</b>	<b>Delivery</b>	<b>Semester</b>
CITE-118	Computer IT Essentials	2	INT	Fall
CITE-121	Network Support 1	3	F2F	Fall
CITE-122	Network Support 1 Projects	3	INT	Fall
CITE-124	TCP/IP Fundamentals	2	F2F	Fall
ENGL-101	English Composition <sup>2</sup>	3		All
MATH	A.A.S. Mathematical Ways of Knowing <sup>1,2</sup>	3		All
	<b>Semester Total</b>	<b>16-18</b>		

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## Second Semester

Course No	Title	Credits	Delivery	Semester
CITE-142	Information Security Fundamentals	3	INT	Spring
CITE-155	Linux Essentials	3	INT	Spring
CITE-213	Network Support II	3	F2F	Spring
CITE-215	Network Support II Projects	3	INT	Spring
COMM-101	Introduction to Speech Communication <sup>2</sup>	3		All
	<b>Semester Total</b>	<b>15</b>		

## Third Semester

Course No	Title	Credits	Delivery	Semester
CITE-165	Linux System Administration	3	INT	Fall
CITE-235	Network Security Fundamentals	3	F2F	Fall
CITE-243	Command Line and Scripting Fundamentals	3	HYB	Fall
CITE-275	Intrusion Detection/Prevention Systems Fundamentals	3	HYB	Fall
	A.A.S. Social and Behavioral Ways of Knowing <sup>2,3</sup>	3		All
	<b>Semester Total</b>	<b>15</b>		

## Fourth Semester

Course No	Title	Credits	Delivery	Semester
CITE-104	System Administration I	3	HYB	Spring
CITE-105	System Administration I Projects	3	HYB	Spring
CITE-237	Ethical Hacking and Systems Defense	3	HYB	Spring
CITE-239	Network Forensics & Incident Response	3	HYB	Spring
CITE-296	Cybersecurity Internship	3		Spring
or ATEC-117	Occupational Relations and Job Search	(2)	LEC	Both
or CITE-289	Cybersecurity Competition	(3)	F2F	Spring
	A.A.S. Institutionally Designated <sup>2,3</sup>	3		All
	<b>Semester Total</b>	<b>17-18</b>		
<b>Total Credits (minimum) 63-66</b>				

### Notes:

<sup>1</sup> Mathematics requirement includes any math course that is MATH-123 or higher and meets the A.A.S. degree requirements listed on page 50 of the 2017-2018 NIC Catalog.

<sup>2</sup>Satisfies A.A.S. degree requirement.

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<sup>3</sup>Select from A.A.S. degree general education requirements listed on page 50 of the 2017-2018 NIC Catalog.

INT – Internet

F2F – Face-to-face

HYB – Hybrid