

# INFORMATION TECHNOLOGY - CYBERSECURITY AND NETWORK ADMINISTRATION CONCENTRATION

**Students starting the program in Fall 2026**

This degree concentration integrates core Information Technology and General Education requirements with specialized coursework from the Cisco Networking Academy, System Administration, and Cybersecurity. Graduates will be well-prepared for entry-level roles as system administrators, security analysts, or network admins, with the technical and strategic skills to manage and maintain IT infrastructure, configure and secure networks, safeguard organizational data against cyber threats, and support business continuity and disaster recovery.



The National Security Agency and Department of Homeland Security has designated Northeast Community College as an institution for CAE-2Y - National Centers of Academic Excellence in Cyber Defense 2-Year Education.

## Required Program of Study for Associate of Applied Science Degree (2 years)

### FIRST YEAR

Course	Fall Semester	Credits
INFO 1010 Fundamentals of Information Technology* ...		3
INFO 2660 Introduction to Networking .....		3
INFO 1605 PC Systems Maintenance and Repair .....		3
INFO 1510 Introduction to Computer Programming ...		3
Mathematics* .....		3-5
		<u>15-17</u>

### Spring Semester

Course	Credits
BSAD 2050 Business Communications* .....	3
INFO 1725 HTML, CSS, and JavaScript .....	3
INFO 1850 Operating Systems .....	3
INFO 2330 Database Concepts, Design and Application .....	3
INFO 2700 Cisco Networking I .....	3
	<u>15</u>

### Internship Options\*\*

Course	Credits
<b>Select one of the following options:</b> .....	<b>3</b>
INFO 2820 Internship ( <i>summer only</i> ) .....	3
<b>OR</b>	
INFO 2020 Systems Analysis and Design .....	3
( <i>final semester only</i> )	

### SECOND YEAR

Course	Fall Semester	Credits
ECON 2110 Principles of Macroeconomics* .....		3
INFO 2720 Principles of Information Security .....		3
INFO 2040 Project Management .....		3
INFO 2650 Network Servers .....		3
INFO 1750 Info Tech Infrastructure Management .....		3
INFO 2710 Cisco Networking II .....		3
		<u>18</u>

### Spring Semester

Course	Credits
BSAD 1000 Human Relations and Ethics* <b>OR</b>	
PSYC 1810 Introduction to Psychology* .....	3
INFO 2735 Information Security Lab .....	3
INFO 2750 Cisco Networking III .....	3
INFO 2020 Systems Analysis and Design** .....	3
INFO 2770 System Security and Compliance .....	3
INFO 2805 CompTIA Security+ Certification .....	3
	<u>15-18</u>

Total Credit Hours 66-68

\*Course fulfills a general education requirement for Northeast Community College. See general education requirements.

\*\*Students are encouraged to enroll in summer internships (*3.0 GPA and permission of instructors required*). If the student does not meet internship requirements, they must enroll in INFO 2020 Systems Analysis and Design in their final semester.