

Networking Cybersecurity Associate of Applied Science

Program Summary

Certifications

Associate of Applied Science

Information Technology is one of the fastest growing industries in the nation. The Computer Science Program provides quality, in-depth training for individuals interested in software design, hardware, cybersecurity, media applications, and general computer maintenance. Students are trained with industry-standard hardware and software through digital labs and in-person communication. Hill College is designated as a National Center of Academic Excellence in Cyber Defense Education for Associate of Applied Science (AAS) in Computer Science, Networking Cybersecurity through 2024. The curriculum path prepares students to complete nationally recognized industry certification exams such as Microsoft's networking administration, CompTIA's A+, Security+, and Network+.

MC 4114 Networking Cybersecurity Associate of Applied Science		60 Hours	TSI Required
Technical Core Certificate (18 hours)			
MC 4110	Certificate of Completion	TSI Waived	
ITNW 1308	Implementing and Supporting Client Operating Systems	3	
ITNW 1358	Network+	3	
ITSY 1342	Information Technology Security	3	
ITSE 1329	Programming Logic and Design	3	
ITSC 1325	Personal Computer Hardware	3	
ITNW 1309	Fundamentals of Cloud Computing	3	

Networking Cybersecurity Certificate (27 Hours)			
MC 4115	Certificate of Technology Ψ	TSI Required	
ITSY 2445	Network Defense and Countermeasures	4	
ITSY 2401	Firewalls and Network Security	4	
COSC 1436	Programming Fundamentals I	4	
ITMT 1406	Computer Systems Networking and Telecommunications	4	
ITSY 2443	Computer System Forensics	4	
ITSY 2459	Security Assessment and Auditing+	4	
ITSC 1316	Linux Installation and Configuration	3	

Networking Cybersecurity AAS (15 Hours)			
MC 4114	Associate of Applied Science Ψ Ψ	TSI Required	
BCIS 1305	Business Computer Applications	3	
ENGL 1301	Composition I	3	
	Creative Arts*	3	
	Mathematics*	3	
	Social and Behavioral Sciences*	3	

*See Core Curriculum for course options

Ψ Prerequisite MC 4110

¶ See Course Description for elective options

Ψ Ψ Prerequisite MC 4115



Network Cybersecurity Certifications (Sequenced)

Program Summary

Certifications

Associate of Applied Science

Technical Core Certification

Year 1: Semester 1

Course	Semester Credit Hours
ITNW 1308 Implementing and Supporting Client Operating Systems	3
ITNW 1358 Network+	3
ITSY 1342 Information Technology Security	3
ITSE 1329 Programming Logic and Design	3
ITSC 1325 Personal Computer Hardware	3
ITNW 1309 Fundamentals of Cloud Computing	3
Total	18

+Capstone experience

Certificate of Technology

Year 1: Semester 1

Course	Semester Credit Hours
ITNW 1308 Implementing and Supporting Client Operating Systems	3
ITNW 1358 Network+	3
ITSY 1342 Information Technology Security	3
ITSE 1329 Programming Logic and Design	3
ITNW 1309 Fundamentals of Cloud Computing	3
Total	15

Year 1: Semester 2

Course	Semester Credit Hours
ITSC 1325 Personal Computer Hardware	3
ITSY 2401 Firewalls and Network Security	4
ITSY 2445 Network Defense and Countermeasures	4
COSC 1436 Programming Fundamentals I	4
Total	15

Year 2: Semester 1

Course	Semester Credit Hours
ITMT 1406 Computer Systems Networking and Telecommunications	4
ITSY 2443 Computer System Forensics	4
ITSY 2459 Security Assessment and Auditing+	4
ITSC 1316 Linux Installation and Configuration	3
Total	15

+Capstone experience



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Program Summary

Certifications

Associate of Applied Science

Year 1: Semester 1

Course	Semester Credit Hours
ITNW 1308 Implementing and Supporting Client Operating Systems	3
ITNW 1358 Network+	3
ITSY 1342 Information Technology Security	3
ITSE 1329 Programming Logic and Design	3
ITNW 1309 Fundamentals of Cloud Computing	3
Total	15

Year 1: Semester 2

Course	Semester Credit Hours
ITSC 1325 Personal Computer Hardware	3
ITSY 2401 Firewalls and Network Security	4
ITSY 2445 Network Defense and Countermeasures	4
COSC 1436 Programming Fundamentals I	4
Total	15

Year 2: Semester 1

Course	Semester Credit Hours
ITMT 1406 Computer Systems Networking and Telecommunications	4
ITSY 2443 Computer System Forensics	4
ITSY 2459 Security Assessment and Auditing+	4
ITSC 1316 Linux Installation and Configuration	3
Total	15

Year 2: Semester 2

Course	Semester Credit Hours
BCIS 1305 Business Computer Applications	3
ENGL 1301 Composition I	3
Creative Arts*	3
Mathematics*	3
Social and Behavioral Sciences*	3
Total	15

+Capstone experience

*See Core Curriculum for course options