

Network Security/Computer Forensics (CMCC/WCCC)

Associates in Applied Science – 60 credit hours

Purpose: The Associate in Applied Science Degree in Network Security/ Computer Forensics is designed to prepare students to address the ever-increasing needs of businesses in the area of technology security. Students in this program can choose to transfer to a baccalaureate degree program or go directly into the workforce. The skills learned in the core curriculum will give students a strong background in computer technology and networks; while the degree concentration will focus on securing, testing, and analyzing information as it is stored, manipulated, and communicated across networks.

Students will work with state-of-the-art networks and hardware throughout the program. The curriculum is designed to prepare students for a multitude of industry standard certifications, for which many of the exams can be taken on campus. Students may enroll on a full or part-time basis and may take courses in the day, evening, or both, depending upon availability. Students enrolled for full-time course work usually need two academic years to complete the associate degree. Part-time students may need several years to complete the program requirements.

Career Opportunities: This program will prepare highly-skilled graduates who are ready to work in technology departments in various capacities. These would include PC repair technicians, network security officers and analysts, network administrators, forensic analysts, and computer managers.

Students must earn a grade of C or better in College Writing (ENG 101) or College Writing Seminar (ENG 105), College Algebra (MAT 122), Interpersonal Communication (COM 101), and all CPT core courses in order to meet the degree requirements of this program. High school prerequisites for admission into this program: Algebra I *Electives offered vary year by year; please see your advisor for the most current list.

Program Educational Outcomes: Upon completion of the Network Security/Computer Forensics program, the graduate of either the Associate in Science or the Associate in Applied Science is prepared to:

- Comprehensive understanding of computing technologies and terminology for industry employment.
- Ability to communicate clearly utilizing written, verbal, and electronic means.
- Utilize critical thinking and collaboration skills to troubleshoot and resolve computer technology and network security issues.
- Ability to analyze and retrieve data utilizing forensic tools.
- Utilize penetration testing means to determine the strength of a networks' security.
- Preparation to pass practice exams in at least 2 industry standard exams. CompTIA – A+, Network+, Server+, Security+ and Microsoft – Network Fundamentals, Security Fundamentals.

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Course #	Course Title	Credits
Semester 1		
ENG101*	College Writing or ENG 105 College Writing Seminar (4 credits)	3 or 4
COMXXX	Select One of the Following: COM101 Interpersonal Communication COM121 Group Process	3
CPT130	Introduction to Visual Basic	3
CPT147	Introduction to PC Repair/OS	3
CPT201	Introduction to Linux	3
	Total	15/16
Semester 2		
CPTXXX	Introduction to Virtual Machines	3
CPT235	Introduction to Networking	3
ENG201	Technical Writing	3
MAT122	College Algebra	3
PHI111	Introduction to Ethics	3
	Total	15
Semester 3		
CPTXXX	CPT Elective	3
CPT261	Computer Forensics I	3
CPT266	Server Administration	3
CPT271	Introduction to Network Security	3
MAT235	Statistics	3
	Total	15
Semester 4		
CPTXXX	Capstone	3
CPTXXX	Computer Forensics II	3
CPTXXX	Penetration Testing	3
CPT239	Advanced Networking Concepts	3
PHI101	Critical Thinking	3
	Total	15

**Course placement determined by assessment test scores and/or prior college coursework.*

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