Academic Plan
Associate of Applied Science
Computer Network Technology - Systems Administration

61 Credits   **Catalog Year: 2020/2021**

The Computer Network Technology program prepares individuals for jobs in the computer networking field. Students in this program gain hands-on experience with computer hardware, software and networks. Upon successful completion of the program, the student will have the needed background to prepare to take one or more of the following exams: Network+; Security+; MCTS (Microsoft Certified Technology Specialist); Security +; or CISCO CCNA.

Required Courses	Credits	Pre or Co Reqs Rqd	Fall	Spr	Sum
General Education Courses					
• BUS 217 - Business Communication & Report Writing	3	☐	☑	☑	☑
• CIS 118 - Intro to PC Applications	3	☑	☑	☑	☑
• COM 115 - Public Speaking* OR COM 125 - Interpersonal Communication	3	☐	☑	☑	☑
• ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1*	3	☑	☑	☑	☑
• MAT 121 - College Algebra: GT-MA1 or Higher*	4	☐	☑	☑	☑
Major Courses					
• CIS 202 - Automated Project Management: MS Project	3	☐	☑	☑	☑
• CIS 287 - Cooperative Education	3	☐	☑	☑	☑
• CNG 121 - Computer Technician I: A+	4	☐	☑	☑	☑
• CNG 124 - Networking I: Network +	3	☐	☑	☑	☑
• CNG 125 - Networking II: Network +	3	☑	☑	☑	☐
• CNG 132 - Network Security Fundamentals	3	☑	☑	☑	☐
• CNG 212 - Configuring Windows Server	4	☑	☑	☑	☐
• CNG 224 - Microsoft Windows Wireless Network	3	☑	☑	☑	☐
Concentration Courses					
• CIS 220 - Fundamentals of Unix	3	☐	☑	☑	☐
• CIS 232 - Unix Shell Programming	3	☐	☐	☑	☐
• CNG 142 - Introduction to Cloud Computing Concepts	3	☐	☑	☐	☐
• CNG 202 - Unix/Linux Server Admin	3	☐	☑	☐	☐
• CNG 213 - Administering Windows Server	4	☑	☑	☑	☐
• CNG 240 - Virtual Environment Administration	3	☑	☑	☑	☐

Pre-Requisites, Co-Requisites, and Recommendations (grade C or better required)

Where requirements are listed as course categories (e.g. Electives, Arts/Humanities) rather than as specific courses, please note that depending upon course choice, pre-requisites may be required.

CIS 118 - Intro to PC Applications
- Requirement: Students must have Windows file management skills to create file folders, rename files, delete files, copy and move files

CNG 125 - Networking II: Network +
- Pre-Requisite: CNG 124 - Networking I: Network +

CNG 132 - Network Security Fundamentals
- Pre-Requisite: CNG 124 - Networking I: Network +

CNG 212 - Configuring Windows Server
- Recommended: CNG 211 - Windows Configuration: (OS) or instructor's permission

CNG 213 - Administering Windows Server
- Pre-Requisite: CNG 211 - Windows Configuration: (OS) OR CNG 212 - Configuring Windows Server

CNG 224 - Microsoft Windows Wireless Network
- Pre-Requisite: CNG 124 - Networking I: Network +

ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1*
- Co-Requisite: CCR 094 - Studio 121

CNG 240 - Virtual Environment Administration
- Pre-Requisite: cng 101 - Networking Fundamentals OR CNG 124 - Networking I: Network +

Notes

- *This course requires college level readiness as measured by Accuplacer, ACT, or SAT scores; approved high school course work that is less than five years old; or successful completion of appropriate college-readiness course.
- AAA 101 – College 101: Student Experience is required for all new college students seeking degrees or transfer.
- Course availability is subject to change.
- In order to meet program requirements, students registered for ENG 121 or ENG 131 must also register for CCR 094 unless they can demonstrate otherwise meeting the CCR 094 standard through assessment testing, prior college coursework, or recent High School coursework. See an Advisor for details.
- Refer to 20/21 catalog for specific requirements and important information about this degree Recommended courses may be listed above for certain electives; consult with the Academic Advising Office (advising@arapahoe.edu or 303.797.5664) or the Computer Networking Faculty (mark.snyder@arapahoe.edu or Nina.amey@arapahoe.edu) for additional elective recommendations.

Graduation Requirements

- To graduate, students must apply for graduation (form available at www.arapahoe.edu/departmentsandprograms/graduation) by the deadline and meet all degree requirements.

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RECOMMENDED COURSE SEQUENCE FULL-TIME TRACK

Year 1: Fall	Credits	Course
	3	CIS 118 - Intro to PC Applications
	3	CIS 202 - Automated Project Management: MS Project
	3	CNG 124 - Networking I: Network +
	3	ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1
	4	MAT 121 - College Algebra: GT-MA1 or Higher
Year 1: Spring	**Credits**	**Course**
	3	BUS 217 - Business Communication & Report Writing
	3	CIS 220 - Fundamentals of Unix
	3	CIS 232 - Unix Shell Programming
	4	CNG 121 - Computer Technician I: A+
	3	CNG 142 - Introduction to Cloud Computing Concepts
Year 2: Fall	**Credits**	**Course**
	3	CNG 125 - Networking II: Network +
	3	CNG 202 - Unix/Linux Server Admin
	4	CNG 212 - Configuring Windows Server
	3	CNG 240 - Virtual Environment Administration
	3	COM 115 - Public Speaking OR COM 125 - Interpersonal Communication
Year 2: Spring	**Credits**	**Course**
	3	CIS 287 - Cooperative Education
	3	CNG 132 - Network Security Fundamentals
	4	CNG 213 - Administering Windows Server
	3	CNG 224 - Microsoft Windows Wireless Network

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RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

Year 1: Fall	Credits	Course
	4	CNG 121 - Computer Technician I: A+
	3	CNG 124 - Networking I: Network +
	3	ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1
Year 1: Spring	**Credits**	**Course**
	3	CIS 220 - Fundamentals of Unix
	3	CIS 232 - Unix Shell Programming
	3	CNG 132 - Network Security Fundamentals
Year 1: Summer	**Credits**	**Course**
	3	CIS 118 - Intro to PC Applications
	3	COM 115 - Public Speaking OR COM 125 - Interpersonal Communication
Year 2: Fall	**Credits**	**Course**
	3	CNG 125 - Networking II: Network +
	3	CNG 202 - Unix/Linux Server Admin
	4	CNG 212 - Configuring Windows Server
Year 2: Spring	**Credits**	**Course**
	3	CNG 142 - Introduction to Cloud Computing Concepts
	4	MAT 121 - College Algebra: GT-MA1 or Higher
Year 2: Summer	**Credits**	**Course**
	3	BUS 217 - Business Communication & Report Writing
	3	CIS 202 - Automated Project Management: MS Project
Year 3: Fall	**Credits**	**Course**
	4	CNG 213 - Administering Windows Server
	3	CNG 240 - Virtual Environment Administration
Year 3: Spring	**Credits**	**Course**
	3	CIS 287 - Cooperative Education
	3	CNG 224 - Microsoft Windows Wireless Network