Academic Plan: Certificate - Computer Network Technology

# Catalog Year: 2020/2021

# Total Credits: 18

This certificate is specifically designed to prepare students as entry-level networking professionals. Students are encouraged to take the associated industry certification exams.

# A - General Courses (9 Credits).

CNG 124 - Networking I: Network +3

CNG 125 - Networking II: Network +3

CNG 142 - Introduction to Cloud Computing Concepts3

# B - Electives (9 Credits).

CIS 118 - Intro to PC Applications3

CIS 220 - Fundamentals of Unix3

CIS 232 - Unix Shell Programming3

CNG 120 - A+ Certification Preparation4

CNG 121 - Computer Technician I: A+4

CNG 122 - Computer Technician II: A+3

CNG 132 - Network Security Fundamentals3

CNG 211 - Windows Configuration: (OS)3

CNG 212 - Configuring Windows Server4

CNG 213 - Administering Windows Server4

CNG 224 - Microsoft Windows Wireless Network3

CNG 253 - Firewalls and How They Work3

CNG 260 - CISCO Network Associate I5

CNG 261 - CISCO Network Associate II5

CNG 262 - CISCO Network Associate III5

CSC 126 - Game Design and Development3

# 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 120 - A+ Certification Preparation

Pre-Requisite/Corequisite: CNG 122 - Computer Technician II: A+

CNG 122 - Computer Technician II: A+

Pre-Requisite: CNG 121 - Computer Technician I: A+

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 +

CNG 253 - Firewalls and How They Work

Pre-Requisite: CNG 132 - Network Security Fundamentals

CNG 260 - CISCO Network Associate I

Co-Requisite: CNG 261 - CISCO Network Associate II

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

CNG 262 - CISCO Network Associate III

Pre-Requisite: CNG 261 - CISCO Network Associate II

Notes

Course availability is subject to change.

Recommended courses may be listed above for certain electives; consult with the Academic Advising Office (advising@arapahoe.edu or 303.797.5664) for additional elective recommendations.

Refer to 20/21 catalog for specific requirements and important information about this certificate.

# Graduation Requirements

To graduate, students must apply for graduation [here](http://www.arapahoe.edu/departments-and-programs/graduation) by the deadline and meet all degree requirements.

# RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

## Year 1: Fall

3CNG 124 - Networking I: Network +

2CNG 142 – Introduction to Cloud Computing Concepts

3Elective

## Year 1: Spring

3CNG 125 - Networking II: Network +

3Elective

3Elective