Academic Plan - Certificate Computer Network Technology

**Catalog Year: 2019/2020**

**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.

# General Courses (9 Credits)

3 Credits, CNG 124 - Networking I: Network +, available fall spring summer

3 Credits, CNG 125 - Networking II: Network +, available fall spring

3 Credits, CNG 142 - Introduction to Cloud Computing Concepts, available fall spring

**Electives (9 Credits)**

# 3 Credits, CIS 118 - Intro to PC Applications, available fall spring summer

3 Credits, CIS 220 - Fundamentals of Unix, available fall spring summer

3 Credits, CIS 232 - Unix Shell Programming, available spring

3 Credits, CNG 122 - Computer Technician II: A+, available fall spring

3 Credits, CNG 132 - Network Security Fundamentals, available fall spring

3 Credits, CNG 211 - Windows Configuration: (OS), available fall spring

3 Credits, CNG 224 - Microsoft Windows Wireless Network, available fall spring

3 Credits, CNG 253 - Firewalls and How They Work, available fall spring

3 Credits, CSC 126 - Game Design and Development, available fall spring

4 Credits, CNG 120 - A+ Certification Preparation, available fall spring

4 Credits, CNG 121 - Computer Technician I: A+, available fall spring summer

4 Credits, CNG 212 - Configuring Windows Server, available fall spring

4 Credits, CNG 213 - Administering Windows Server, available fall

5 Credits, CNG 260 - CISCO Network Associate I, available fall spring

5 Credits, CNG 261 - CISCO Network Associate II, available fall spring

5 Credits, CNG 262 - CISCO Network Associate III, available spring summer

5 Credits, CNG 263 - CISCO Network Associate IV, available spring summer

# Pre-Requisites, Co-Requisites, and Recommendations

CIS 118 - Intro to PC Applications

Requirement: Students must have Windows file management skills to create file folders, rename files, delete

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 261 - CISCO Network Associate II

Pre-Requisite: CNG 260 - CISCO Network Associate I

CNG 262 - CISCO Network Associate III

Pre-Requisite: CNG 261 - CISCO Network Associate II

CNG 263 - CISCO Network Associate IV

Pre-Requisite: CNG 262 - CISCO Network Associate III

# Notes

Course availability is subject to change.

Refer to 19/20 catalog for specific requirements and important information about this certificate.

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.

# Graduation Requirements

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

# RECOMMENDED COURSE SEQUENCE FULL-TIME TRACK

## Year 1: Fall

3 Credits, CNG 124 - Networking I: Network +

3 Credits, CNG 132 - Network Security Fundamentals

3 Credits, CNG 211 - Windows Configuration: (OS)

3 Credits, CNG 253 - Firewalls and How They Work

## Year 1: Spring

4 Credits, CNG 120 - A+ Certification Preparation

3 Credits, CNG 125 - Networking II: Network +

RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

Year 1: Fall

5 Credits, CNG 260 - CISCO Network Associate I

5 Credits, CNG 261 - CISCO Network Associate II

Year 1: Spring

5 Credits, CNG 262 - CISCO Network Associate III

5 Credits, CNG 263 - CISCO Network Associate IV