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

| Required Courses | Credits | Pre or Co Reqs Rqd | Course Availability | | |
|---|---|---|---|---|---|
| | | | Fall | Spr | Sum |
| **General Courses (9 Credits)** | | | | | |
| • CNG 124 - Networking I: Network + | 3 | ☐ | ☑ | ☑ | ☑ |
| • CNG 125 - Networking II: Network + | 3 | ☑ | ☑ | ☑ | ☐ |
| • CNG 142 - Introduction to Cloud Computing Concepts | 3 | ☐ | ☑ | ☑ | ☐ |
| **Electives (9 Credits)** | | | | | |
| • CIS 118 - Intro to PC Applications | 3 | ☑ | ☑ | ☑ | ☑ |
| • CIS 220 - Fundamentals of Unix | 3 | ☐ | ☑ | ☑ | ☑ |
| • CIS 232 - Unix Shell Programming | 3 | ☐ | ☐ | ☑ | ☐ |
| • CNG 120 - A+ Certification Preparation | 4 | ☑ | ☑ | ☑ | ☐ |
| • CNG 121 - Computer Technician I: A+ | 4 | ☐ | ☑ | ☑ | ☑ |
| • CNG 122 - Computer Technician II: A+ | 3 | ☑ | ☑ | ☑ | ☐ |
| • CNG 132 - Network Security Fundamentals | 3 | ☑ | ☑ | ☑ | ☐ |
| • CNG 211 - Windows Configuration: (OS) | 3 | ☐ | ☑ | ☑ | ☐ |
| • CNG 212 - Configuring Windows Server | 4 | ☑ | ☑ | ☑ | ☐ |
| • CNG 213 - Administering Windows Server | 4 | ☑ | ☑ | ☐ | ☐ |
| • CNG 224 - Microsoft Windows Wireless Network | 3 | ☑ | ☑ | ☑ | ☐ |
| • CNG 253 - Firewalls and How They Work | 3 | ☑ | ☑ | ☑ | ☐ |
| • CNG 260 - CISCO Network Associate I | 5 | ☑ | ☑ | ☑ | ☐ |
| • CNG 261 - CISCO Network Associate II | 5 | ☑ | ☑ | ☑ | ☐ |
| • CNG 262 - CISCO Network Associate III | 5 | ☑ | ☐ | ☑ | ☑ |
| • CNG 263 - CISCO Network Associate IV | 5 | ☑ | ☐ | ☑ | ☑ |
| • CSC 126 - Game Design and Development | 3 | ☐ | ☑ | ☑ | ☐ |

| Pre-Requisities, Co-Requisites, and Recommendations (grade C or better required) |
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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 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 |
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- 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 19/20 catalog for specific requirements and important information about this certificate

| Graduation Requirements |
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- 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 PART-TIME TRACK

| Year 1: Fall | Credits | Course |
|---|---|---|
| | 3 | CNG 124 - Networking I: Network + |
| | 3 | CNG 142 - Introduction to Cloud Computing Concepts |
| | 3 | Elective |
| **Year 1: Spring** | **Credits** | **Course** |
| | 3 | CNG 125 - Networking II: Network + |
| | 3 | Elective |
| | 3 | Elective |