Academic Plan - Associate of Applied Science Computer Networking - General

**Catalog Year: 2019/2020**

**Total Credits:62**

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.

# General Education Courses

3 Credits, BUS 217 - Business Communication & Report Writing, available fall spring summer

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

3 Credits, COM 115 - Public Speaking\* OR COM 125 - Interpersonal Communication, available fall spring summer

3 Credits, ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1\*, available fall spring summer

4 Credits, MAT 121 - College Algebra: GT-MA1\*, available fall spring summer

# Major Courses

3 Credits, CIS 202 - Automated Project Management: MS Project, available fall spring

3 Credits, CIS 287 - Cooperative Education, available fall spring summer

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

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

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

3 Credits, CNG 224 - Microsoft Windows Wireless Network, 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

# Concentration Courses

3 Credits, Any Course with CNG, CSC, CWB Prefix, available fall spring summer

3 Credits, Any Course with CNG, CSC, CWB Prefix, available fall spring summer

3 Credits, Any Course with CNG, CSC, CWB Prefix, available fall spring summer

3 Credits, Any Course with CNG, CSC, CWB Prefix, available fall spring summer

3 Credits, Any Course with CNG, CSC, CWB Prefix, available fall spring summer

3 Credits, Any Course with CNG, CSC, CWB Prefix, available fall 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 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 224 - Microsoft Windows Wireless Network

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

# Program Outcomes

Understand networking principles.

Apply hardware concepts.

Apply Windows server concepts.

Use project management software.

# Notes

Course availability is subject to change.

Refer to 19/20 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.

\*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.

# 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, CIS 118 - Intro to PC Applications

3 Credits, CIS 202 - Automated Project Management: MS Project

3 Credits, CNG 124 - Networking I: Network +

3 Credits, ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1

4 Credits, MAT 121 - College Algebra: GT-MA1

## Year 1: Spring

4 Credits, CNG 121 - Computer Technician I: A+

3 Credits, CNG 125 - Networking II: Network +

3 Credits, CNG 132 - Network Security Fundamentals

3 Credits, CNG 224 - Microsoft Windows Wireless Network

## Year 2: Fall

3 Credits, BUS 217 - Business Communication & Report Writing

4 Credits, CNG 212 - Configuring Windows Server

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

## Year 2: Spring

3 Credits, CIS 287 - Cooperative Education

3 Credits, COM 115 - Public Speaking OR COM 125 - Interpersonal Communication

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

# RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

## Year 1: Fall

4 Credits, CNG 121 - Computer Technician I: A+

3 Credits, CNG 124 - Networking I: Network +

3 Credits, ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1

## Year 1: Spring

3 Credits, CNG 125 - Networking II: Network +

3 Credits, CNG 132 - Network Security Fundamentals

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

## Year 1: Summer

3 Credits, CIS 118 - Intro to PC Applications

3 Credits, COM 115 - Public Speaking OR COM 125 - Interpersonal Communication

## Year 2: Fall

4 Credits, CNG 212 - Configuring Windows Server

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

4 Credits, MAT 121 - College Algebra: GT-MA1

## Year 2: Spring

3 Credits, CNG 224 - Microsoft Windows Wireless Network

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

## Year 2: Summer

3 Credits, BUS 217 - Business Communication & Report Writing

3 Credits, CIS 202 - Automated Project Management: MS Project

## Year 3: Fall

3 Credits, CIS 287 - Cooperative Education

3 Credits, Concentration Course: CNG, CSC, CWB Prefix

3 Credits, Concentration Course: CNG, CSC, CWB Prefix