Academic Plan - Associate of Applied Science Computer Networking – CISCO

# 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.

# Total Credits:60

# A - 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 or Higher\*, available fall spring summer

# B - Major Courses

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

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

# C - Concentration Courses

3 Credits, CSC 119 - Introduction to Programming, available fall spring summer

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

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

5 Credits, CNG 262 - CISCO Network Associate III, 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 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 +

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

ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1\*

Co-Requisite: CCR 094 - Studio 121

# Notes

Course availability is subject to change.

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.

\*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.

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.

# 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 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 or Higher

## Year 1: Spring

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

3 Credits, CNG 132 - Network Security Fundamentals

4 Credits, CNG 212 - Configuring Windows Server

3 Credits, CNG 224 - Microsoft Windows Wireless Network

## Year 2: Fall

3 Credits, BUS 217 - Business Communication & Report Writing

3 Credits, CNG 125 - Networking II: Network +

5 Credits, CNG 260 - CISCO Network Associate I

5 Credits, CNG 261 - CISCO Network Associate II

## Year 2: Spring

3 Credits, CIS 287 - Cooperative Education

5 Credits, CNG 262 - CISCO Network Associate III

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

3 Credits, CSC 119 - Introduction to Programming

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 132 - Network Security Fundamentals

4 Credits, CNG 212 - Configuring Windows Server

3 Credits, CNG 224 - Microsoft Windows Wireless Network

## 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

5 Credits, CNG 260 - CISCO Network Associate I

5 Credits, CNG 261 - CISCO Network Associate II

## Year 2: Spring

5 Credits, CNG 262 - CISCO Network Associate III

3 Credits, CSC 119 - Introduction to Programming

## 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, CNG 125 - Networking II: Network +

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