Academic Plan - Associate of Applied Science Computer Network - Systems Administration

Catalog Year: 2021/2022

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: 61

General Education Courses

* 3 Credits, BUS 217 - Business Communication & Report Writing (3 Cr.), available fall spring summer
* 3 Credits, CIS 118 - Intro to PC Applications (3 Cr.), available fall spring summer
* 3 Credits, COM 115 - Public Speaking\* OR COM 125 - Interpersonal Communication (3 Cr.), 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

Major Courses

* 3 Credits, CIS 202 - Automated Project Management: MS Project (3 Cr.), available fall spring summer
* 3 Credits, CIS 287 - Cooperative Education (3 Cr.), available fall spring summer
* 3 Credits, CNG 124 - Networking I: Network + (3 Cr.), available fall spring summer
* 3 Credits, CNG 125 - Networking II: Network + (3 Cr.), available fall spring
* 3 Credits, CNG 132 - Network Security Fundamentals (3 Cr.), available fall spring
* 3 Credits, CNG 224 - Microsoft Windows Wireless Network (3 Cr.), available fall spring
* 4 Credits, CNG 121 - Computer Technician I: A+ (4 Cr.), available fall spring summer
* 4 Credits, CNG 212 - Configuring Windows Server (4 Cr.), available fall spring

Concentration Courses

* 3 Credits, CIS 220 - Fundamentals of Unix (3 Cr.), available fall spring
* 3 Credits, CIS 232 - Unix Shell Programming (3 Cr.), available spring
* 3 Credits, CNG 142 - Introduction to Cloud Computing Concepts (3 Cr.), available fall
* 3 Credits, CNG 202 - Unix/Linux Server Admin (3 Cr.), available fall
* 3 Credits, CNG 240 - Virtual Environment Administration, available spring
* 4 Credits, CNG 213 - Administering Windows Server (4 Cr.), available fall

Pre-Requisites, Co-Requisites, and Recommendations

* CNG 125 - Networking II: Network + (3 Cr.)
	+ Pre-Requisite: CNG 124 - Networking I: Network +
* CNG 132 - Network Security Fundamentals (3 Cr.)
	+ Co-Requisite: CNG 124 - Networking I: Network +
* CNG 213 - Administering Windows Server (4 Cr.)
	+ Pre-Requisite: CNG 212 - Configuring Windows Server
* CNG 224 - Microsoft Windows Wireless Network (3 Cr.)
	+ Pre-Requisite: CNG 124 - Networking I: Network +
* ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1\*
	+ Co-Requisite: CCR 094 - Studio 121
* CNG 240 - Virtual Environment Administration
	+ Pre-Requisite: CNG 101 - Networking Fundamentals OR CNG 124 - Networking I: Network +

Notes

* Course availability is subject to change.
* Refer to 21/22 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.e
* \*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
* 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/departmentsandprograms/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 Cr.)

3 Credits, CIS 202 - Automated Project Management: MS Project (3 Cr.)

3 Credits, CNG 124 - Networking I: Network + (3 Cr.)

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

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

Year 1: Spring

3 Credits, BUS 217 - Business Communication & Report Writing (3 Cr.)

3 Credits, CIS 220 - Fundamentals of Unix (3 Cr.)

3 Credits, CIS 232 - Unix Shell Programming (3 Cr.)

4 Credits, CNG 121 - Computer Technician I: A+ (4 Cr.)

3 Credits, CNG 142 - Introduction to Cloud Computing Concepts (3 Cr.)

Year 2: Fall

3 Credits, CNG 125 - Networking II: Network + (3 Cr.)

3 Credits, CNG 202 - Unix/Linux Server Admin (3 Cr.)

4 Credits, CNG 212 - Configuring Windows Server (4 Cr.)

3 Credits, CNG 240 - Virtual Environment Administration

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

Year 2: Spring

3 Credits, CIS 287 - Cooperative Education (3 Cr.)

3 Credits, CNG 132 - Network Security Fundamentals (3 Cr.)

4 Credits, CNG 213 - Administering Windows Server (4 Cr.)

3 Credits, CNG 224 - Microsoft Windows Wireless Network (3 Cr.)

RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

Year 1: Fall

4 Credits, CNG 121 - Computer Technician I: A+ (4 Cr.)

3 Credits, CNG 124 - Networking I: Network + (3 Cr.)

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

Year 1: Spring

3 Credits, CIS 220 - Fundamentals of Unix (3 Cr.)

3 Credits, CIS 232 - Unix Shell Programming (3 Cr.)

3 Credits, CNG 132 - Network Security Fundamentals (3 Cr.)

Year 1: Summer

3 Credits, CIS 118 - Intro to PC Applications (3 Cr.)

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

Year 2: Fall

3 Credits, CNG 125 - Networking II: Network + (3 Cr.)

3 Credits, CNG 202 - Unix/Linux Server Admin (3 Cr.)

4 Credits, CNG 212 - Configuring Windows Server (4 Cr.)

Year 2: Spring

3 Credits, CNG 142 - Introduction to Cloud Computing Concepts (3 Cr.)

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

Year 2: Summer

3 Credits, BUS 217 - Business Communication & Report Writing (3 Cr.)

3 Credits, CIS 202 - Automated Project Management: MS Project (3 Cr.)

Year 3: Fall

4 Credits, CNG 213 - Administering Windows Server (4 Cr.)

3 Credits, CNG 240 - Virtual Environment Administration

Year 3: Spring

3 Credits, CIS 287 - Cooperative Education (3 Cr.)

3 Credits, CNG 224 - Microsoft Windows Wireless Network (3 Cr.)