

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.

Required Courses	Credits	Pre or Co Reqs Rqd	Course Availability		
			Fall	Spr	Sum
<b>General Education Courses</b>					
• BUS 217 - Business Communication & Report Writing (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• CIS 118 - Intro to PC Applications (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• COM 115 - Public Speaking* OR COM 125 - Interpersonal Communication (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1*	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• MAT 121 - College Algebra: GT-MA1 or Higher*	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Major Courses</b>					
• CIS 202 - Automated Project Management: MS Project (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• CIS 287 - Cooperative Education (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• CNG 121 - Computer Technician I: A+ (4 Cr.)	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• CNG 124 - Networking I: Network + (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• CNG 125 - Networking II: Network + (3 Cr.)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• CNG 132 - Network Security Fundamentals (3 Cr.)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• CNG 212 - Configuring Windows Server (4 Cr.)	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• CNG 224 - Microsoft Windows Wireless Network (3 Cr.)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Concentration Courses</b>					
• CNG 260 - CISCO Network Associate I (5 Cr.)	5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• CNG 261 - CISCO Network Associate II (5 Cr.)	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• CNG 262 - CISCO Network Associate III (5 Cr.)	5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• CNG 263 - CISCO Network Associate IV (5 Cr.)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### Pre-Requisites, Co-Requisites, and Recommendations (grade C or better required)

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.

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 224 - Microsoft Windows Wireless Network (3 Cr.)

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

CNG 261 - CISCO Network Associate II (5 Cr.)

- Pre-Requisite/Co-Requisite: CNG 260 - CISCO Network Associate I (5 Cr.)

CNG 262 - CISCO Network Associate III (5 Cr.)

- Pre-Requisite: CNG 261 - CISCO Network Associate II

CNG 263 - CISCO Network Associate IV (5 Cr.)

- Pre-Requisite: CNG 262 - CISCO Network Associate III

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

- Co-Requisite: CCR 094 - Studio 121

MAT 121 - College Algebra: GT-MA1 or Higher\*

- Co-Requisite: MAT 093 - Algebra Lab\* (1 Cr.) OR MAT 077 - Prep Lab for College Algebra (2 Cr.)
- Pre-Requisite: MAT 055 - Algebraic Literacy (4 Cr.) or appropriate score

### Program Outcomes

- Understand Cisco networking fundamentals.
- Apply Cisco router theory.
- Apply Cisco LAN switching fundamentals.
- Create network designs.

### Notes

- \*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.
- Course availability is subject to change.
- 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.
- 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.
- Refer to 21/22 catalog for specific requirements and important information about this degree

### Graduation Requirements

- To graduate, students must apply for graduation (form available at [www.arapahoe.edu/departments-and-](http://www.arapahoe.edu/departments-and-)



62 Credits

programs/graduation) by the deadline and meet all degree requirements.

RECOMMENDED COURSE SEQUENCE FULL-TIME TRACK

Year 1: Fall	Credits	Course
	3	CIS 118 - Intro to PC Applications (3 Cr.)
	3	CIS 202 - Automated Project Management: MS Project (3 Cr.)
	3	CNG 124 - Networking I: Network + (3 Cr.)
	3	ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1
	4	MAT 121 - College Algebra: GT-MA1 or Higher
Year 1: Spring	Credits	Course
	4	CNG 121 - Computer Technician I: A+ (4 Cr.)
	3	CNG 132 - Network Security Fundamentals (3 Cr.)
	4	CNG 212 - Configuring Windows Server (4 Cr.)
	3	CNG 224 - Microsoft Windows Wireless Network (3 Cr.)
Year 2: Fall	Credits	Course
	3	BUS 217 - Business Communication & Report Writing (3 Cr.)
	3	CNG 125 - Networking II: Network + (3 Cr.)
	5	CNG 260 - CISCO Network Associate I (5 Cr.)
	5	CNG 261 - CISCO Network Associate II (5 Cr.)
Year 2: Spring	Credits	Course
	3	CIS 287 - Cooperative Education (3 Cr.)
	5	CNG 262 - CISCO Network Associate III (5 Cr.)
	3	CNG 263 - CISCO Network Associate IV (5 Cr.)
	3	COM 115 - Public Speaking OR COM 125 - Interpersonal Communication (3 Cr.)

RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

Year 1: Fall	Credits	Course
	4	CNG 121 - Computer Technician I: A+ (4 Cr.)
	3	CNG 124 - Networking I: Network + (3 Cr.)
	3	ENG 121 - English Composition GT-CO1 OR ENG 131 - Technical Writing GT-CO1
Year 1: Spring	Credits	Course
	3	CNG 132 - Network Security Fundamentals (3 Cr.)
	4	CNG 212 - Configuring Windows Server (4 Cr.)
	3	CNG 224 - Microsoft Windows Wireless Network (3 Cr.)
Year 1: Summer	Credits	Course
	3	CIS 118 - Intro to PC Applications (3 Cr.)
	3	COM 115 - Public Speaking OR COM 125 - Interpersonal Communication (3 Cr.)
Year 2: Fall	Credits	Course
	5	CNG 260 - CISCO Network Associate I (5 Cr.)
	5	CNG 261 - CISCO Network Associate II (5 Cr.)
Year 2: Spring	Credits	Course
	5	CNG 262 - CISCO Network Associate III (5 Cr.)
	3	CNG 263 - CISCO Network Associate IV (5 Cr.)
Year 2: Summer	Credits	Course
	3	BUS 217 - Business Communication & Report Writing (3 Cr.)
	3	CIS 202 - Automated Project Management: MS Project (3 Cr.)
Year 3: Fall	Credits	Course
	3	CIS 287 - Cooperative Education (3 Cr.)
	3	CNG 125 - Networking II: Network + (3 Cr.)
	4	MAT 121 - College Algebra: GT-MA1 or Higher