

# IT-NETWORK SPECIALIST

## Overview

IT-Network Specialist Associate of Applied Science Degree

Program Code: 10-150-2

For more information: [wctc.edu/network-spec](http://www.wctc.edu/network-spec/) (<http://www.wctc.edu/network-spec/>)

Learn to secure networks and create and maintain computer systems essential for day-to-day business operations, ensuring network security and connectivity. Install and troubleshoot operating systems, configure routers and switches, and manage remote clients and devices. Explore cloud security, cost and core services, and understand and implement virtualization in an enterprise.

The minimum required course grades and program grade point average (GPA) for students under this catalog are:

Core Courses = C

General Studies Courses = C

Program GPA = 2.0

**Build your degree along a career pathway.** Start with a couple of courses or an entry-level credential to enter the job market in your area of interest, then continue with higher credentials on your educational path for job advancement and higher wages.

## Career Pathway

1. Network Enterprise Administrator 28
2. IT-Cloud Technical Solution Specialist 27
3. IT-Network Specialist 62

**Related Certificates that can be earned along the way.**

- Enterprise Support Technician Technical Certificate (<https://catalog.wctc.edu/programs/enterprise-support-technician/>)
- IT Network Support Specialist Technical Certificate (<https://catalog.wctc.edu/programs/network-support-specialist/>)
- Storage and Virtualization Administrator Technical Certificate (<https://catalog.wctc.edu/programs/storage-virtualization-administrator/>)
- IT Security Administrator Technical Certificate (<https://catalog.wctc.edu/programs/security-administrator/>)
- Cisco CCNA Technical Certificate (<https://catalog.wctc.edu/programs/cisco-ccna/>)
- CAE2Y Technical Certificate (<https://catalog.wctc.edu/programs/cae2y-cybersecurity/>)

## Learning Outcomes

### Program Outcomes

1. Implement computer networks.
2. Implement client systems.
3. Implement server operating systems.
4. Implement network security components.
5. Develop technical documentation.
6. Troubleshoot network systems.

## Critical Life Skills

To help our students prepare for success in a workplace and society that is **increasingly global, multi-cultural, and collaborative**, all students are given opportunities to develop and demonstrate Critical Life Skills, both in and out of the classroom. The following Critical Life Skills are learning outcomes for WCTC students.

- **Communication:** Demonstrate appropriate communication.
- **Critical Thinking/Problem Solving:** Demonstrate critical thinking skills to analyze situations and solve problems.
- **Relationships:** Demonstrate effective interpersonal skills.
- **Self-management:** Demonstrate responsible and respectful behavior.

## Required Courses

Listed below are the required courses for the program. To view the recommended sequence for taking courses click on the plan of study tab(s) above. Work with your Academic Advisor to design a program plan!

View your **Program Matrix** to find out when each course will be offered (term and time of day).

Code	Title	Credits
<b>Core Courses</b>		
107-103	IT Business Strategies	3
107-137	IT Internship	1
Approved Substitute: 107-117		
107-184	IT Network Capstone	2
150-117	Introduction to Cisco Networks 1st	3
Approved Substitute: 150-175		
150-118	Switching Routing & Wireless Cisco 2, take 2nd	3
Approved Substitute: 150-176		
150-121	Enterprise Clients	3
Approved Substitute: 150-151		
150-137	MS Server	3
150-153	Virtualization	3
150-165	Cloud AWS	3
150-166	AWS Solutions Architect	3
150-172	Wireless Technology	3
150-173	Cloud Technologies	3
150-188	Linux Essentials	3
151-106	Security I	3
Approved Substitute: 151-101		
152-101	Python Programming	1
631-183	IT Essentials	3
<b>General Studies</b>		
801-136	English Composition 1	3
Approved Substitute: 801-223		
801-197	Technical Reporting	3
Approved Substitute: 801-243		
801-198	Speech	3
Approved Substitute: 801-196		
804-133	Math & Logic	3

Approved Substitutes: 804-118 OR 804-116 OR 804-195 OR 804-198		
809-143	Microeconomics	3
Approved Substitute: 809-195		
809-199	Psychology of Human Relations	3
Approved Substitute: 809-198		
890-108	Employment Success	1
Approved Substitute: 107-117		
Total Credits		62

## Full-time Plan

### First Year

Fall Term 1		Credits
631-183	IT Essentials	3
150-188	Linux Essentials	3
Credits		6

Fall Term 2		
151-106	Security I	3
150-117	Introduction to Cisco Networks	3
Credits		6

Spring Term 1		
150-118	Switching Routing & Wireless	3
150-137	MS Server	3
Credits		6

Spring Term 2		
150-165	Cloud AWS	3
801-136	English Composition 1	3
Credits		6

### Second Year

Summer Interim		
152-101	Python Programming	1
Credits		1

Summer Term		
801-198	Speech	3
804-133	Math & Logic	3
Credits		6

Fall Term 1		
150-121	Enterprise Clients	3
150-153	Virtualization	3
150-166	AWS Solutions Architect	3
Credits		9

Fall Term 2		
150-173	Cloud Technologies	3
801-197	Technical Reporting	3
Credits		6

Winter Interim		
890-108	Employment Success	1
Credits		1

Spring Term 1		
107-103	IT Business Strategies	3
150-172	Wireless Technology	3
Credits		6

Spring Term 2		
107-184	IT Network Capstone	2
809-143	Microeconomics	3
809-199	Psychology of Human Relations	3
Credits		8

Third Year		
Summer Term		
107-137	IT Internship	1
Credits		1
Total Credits		62