

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 27
2. IT Network Specialist 61

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. See your Academic Advisor to design a full-time or part-time plan that works for you!

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

| Code | Title | Credits |
|--|---|---------|
| Core Courses | | |
| 107-103 | IT Business Strategies | 3 |
| 107-137 | IT Internship | 1 |
| Approved Substitute: 107-117 | | |
| 107-184 | IT Capstone | 2 |
| 150-117 | Introduction to Cisco Networks ^{Cisco 1, take 1st} | 3 |
| Approved Substitutes: 150-175 OR 150-178 | | |
| 150-118 | Switching Routing & Wireless ^{Cisco 2, take 2nd} | 3 |
| Approved Substitutes: 150-176 OR 150-179 | | |
| 150-121 | Enterprise Clients | 3 |
| Approved Substitute: 150-151 OR 150-131 | | |
| 150-122 | Intro to PowerShell Scripting | 1 |
| Approved Substitute: 150-154 | | |
| 150-137 | MS Server | 3 |
| Approved Substitute: 150-136 | | |
| 150-153 | Virtualization | 3 |
| Approved Substitute: 150-152 | | |
| 150-164 | Intro to Bash Shell Scripting | 1 |
| Approved Substitute: 150-154 | | |
| 150-165 | Cloud AWS | 3 |
| Approved Substitute: 150-150 | | |
| 150-172 | Wireless Technology | 3 |
| Approved Substitute: 150-168 | | |
| 150-188 | Linux Essentials | 3 |
| Approved Substitute: 150-186 | | |
| 151-106 | Security I | 3 |
| Approved Substitute: 151-101 | | |
| 152-101 | Python Programming | 1 |
| 631-183 | IT Essentials A+ | 3 |
| Elective | | 3 |
| 890-108 | Employment Success | 1 |

| General Studies | | |
|--|-------------------------------|-----------|
| 801-136 | English Composition 1 | 3 |
| 801-197 | Technical Reporting | 3 |
| 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 | | |
| Total Credits | | 61 |

Full-time Plan

| First Year | | |
|----------------|--------------------------------|----------|
| Fall Term 1 | | Credits |
| 150-117 | Introduction to Cisco Networks | 3 |
| 150-188 | Linux Essentials | 3 |
| Credits | | 6 |
| Fall Term 2 | | |
| 151-106 | Security I | 3 |
| 804-133 | Math & Logic | 3 |
| Credits | | 6 |
| Winter Interim | | |
| 150-164 | Intro to Bash Shell Scripting | 1 |
| Credits | | 1 |
| Spring Term 1 | | |
| 150-118 | Switching Routing & Wireless | 3 |
| 150-121 | Enterprise Clients | 3 |
| Credits | | 6 |
| Spring Term 2 | | |
| 150-137 | MS Server | 3 |
| 152-101 | Python Programming | 1 |
| 801-136 | English Composition 1 | 3 |
| Credits | | 7 |
| Second Year | | |
| Summer Interim | | |
| 150-122 | Intro to PowerShell Scripting | 1 |
| Credits | | 1 |
| Summer Term | | |
| 631-183 | IT Essentials A+ | 3 |
| 801-198 | Speech | 3 |
| Credits | | 6 |
| Fall Term 1 | | |
| 107-103 | IT Business Strategies | 3 |
| 150-153 | Virtualization | 3 |
| Credits | | 6 |
| Fall Term 2 | | |
| 150-165 | Cloud AWS | 3 |
| 801-197 | Technical Reporting | 3 |
| Credits | | 6 |

| Winter Interim | | |
|----------------------|-------------------------------|-----------|
| 890-108 | Employment Success | 1 |
| Credits | | 1 |
| Spring Term 1 | | |
| 150-172 | Wireless Technology | 3 |
| 809-199 | Psychology of Human Relations | 3 |
| Credits | | 6 |
| Spring Term 2 | | |
| 809-143 | Microeconomics | 3 |
| 107-184 | IT Capstone | 2 |
| Elective | | 3 |
| Credits | | 8 |
| Third Year | | |
| Summer Term | | |
| 107-137 | IT Internship | 1 |
| Credits | | 1 |
| Total Credits | | 61 |