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/)

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-virtualizationadministrator/)
- 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).

Core Courses 107-103 IT Business Strategies	3 1
····	
	1
107-137 Internship - IT	
Approved Substitute: 107-117	
107-184 IT Network Capstone	2
150-117 Introduction to Cisco Networks ^{Cisco 1, take} 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
General Studies	
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

Credits 6 Fall Term 2 3 151-106 Security I 3 150-117 Introduction to Cisco Networks 3 Credits 6 Spring Term 1 50-118 Switching Routing & Wireless 3 150-137 MS Server 3 5 Credits 6 5 5 Spring Term 2 5 1 5 150-165 Cloud AWS 3 3 801-136 English Composition 1 3 3 Credits 6 5 5 Summer Interim 1 5 6 Summer Interim 1 1 5 152-101 Python Programming 1 Virtualization 1 3 Summer Interim 1 5 150-121 Enterprise Clients 3 150-153 Virtualization 3 150-153 Virtualization 3 150-173 Cloud Technologies <t< th=""><th>First Year</th><th></th><th></th></t<>	First Year		
150-188Linux Essentials3Credits6Fall Term 2151-106Security I3150-117Introduction to Cisco Networks3Credits6Spring Term 1Itoduction to Cisco Networks3150-118Switching Routing & Wireless3150-137MS Server3150-137MS Server3150-165Cloud AWS3801-136English Composition 13Credits6Second Year1Summer Interim1152-101Python Programming1Credits6Second Year3Summer Term3801-138Speech3801-139Speech3150-153Virtualization3150-153Virtualization3150-164AWS Solutions Architect3150-173Cloud Technologies3801-197Technical Reporting3801-197Technical Reporting3801-197Technical Reporting3801-197Technical Reporting3801-197Technical Reporting3801-198Employment Success1107-103IT Business Strategies3150-172Wireless Technology3	Fall Term 1		Credits
Credits 6 Fall Term 2 3 151-106 Security I 3 150-117 Introduction to Cisco Networks 3 Credits 6 Spring Term 1 1 150-118 Switching Routing & Wireless 3 150-137 MS Server 3 Credits 6 Spring Term 2 6 Spring Term 2 7 150-165 Cloud AWS 3 801-136 English Composition 1 3 Credits 6 6 Second Vear 7 7 Summer Interim 1 7 152-101 Python Programming 1 152-101 Python Programming 1 Summer Term 3 3 801-198 Speech 3 804-133 Math & Logic 3 150-153 Virtualization 3 150-153 Virtualization 3 150-173 Cloud Technologies	631-183	IT Essentials	3
Fall Term 2 3 151-106 Security I 3 150-117 Introduction to Cisco Networks 3 Credits 6 Spring Term 1 50-117 MS Server 3 150-137 MS Server 3 Credits 6 Spring Term 2 6 Spring Term 2 7 150-165 Cloud AWS 3 801-136 English Composition 1 3 Credits 6 Second Year 7 Summer Interim 1 152-101 Python Programming 1 Credits 1 6 Summer Interim 1 1 152-101 Python Programming 1 Credits 1 6 Fall Term 1 1 5 150-121 Enterprise Clients 3 150-153 Virtualization 3 150-153 Virtualization 3 150-173 Cloud Technologies 3	150-188	Linux Essentials	3
151-106 Security I 3 150-117 Introduction to Cisco Networks 3 Credits 6 Spring Term 1 1 150-118 Switching Routing & Wireless 3 150-137 MS Server 3 Credits 6 Spring Term 2 6 150-165 Cloud AWS 3 801-136 English Composition 1 3 Credits 6 Second Year 7 Summer Interim 1 152-101 Python Programming 1 Credits 1 6 Summer Interim 1 7 152-101 Python Programming 1 152-101 Python Programming 1 Summer Interim 3 3 801-198 Speech 3 801-193 Math & Logic 3 150-121 Enterprise Clients 3 150-153 Virtualization 3 150-173 Cloud Tech		Credits	6
150-117Introduction to Cisco Networks3Credits6Spring Term 1	Fall Term 2		
Credits6Spring Term 1150-118150-118Switching Routing & Wireless3150-137MS Server3Credits6Spring Term 21150-165Cloud AWS3801-136English Composition 13Credits6Second Year1Summer Interim1152-101Python Programming1Credits1Summer Term3801-198Speech3804-133Math & Logic3Credits6Fall Term 11150-153Virtualization3150-166AWS Solutions Architect3Credits99Fall Term 21150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success1Credits11Spring Term 1171711107-103IT Business Strategies33150-172Wireless Technology3	151-106	Security I	3
Spring Term 1	150-117	Introduction to Cisco Networks	3
150-118Switching Routing & Wireless3150-137MS Server3Credits6Spring Term 21150-165Cloud AWS3801-136English Composition 13Credits6Second Year5Summer Interim1152-101Python Programming1Credits1Summer Term801-198801-198Speech3804-133Math & Logic3Credits6Fall Term 11150-121Enterprise Clients3150-166AWS Solutions Architect3150-166AWS Solutions Architect3801-197Technical Reporting3801-197Technical Reporting3801-197Technical Reporting3800-108Employment Success1Credits11Spring Term 111107-103IT Business Strategies3150-172Wireless Technology3		Credits	6
150-137MS Server3Credits6Spring Term 2150-165Cloud AWS801-136English Composition 13CreditsSecond YearSummer Interim152-101Python Programming152-101Python Programming152-101Python Programming1Credits801-198Speech801-198Speech804-133Math & Logic3Credits6Fall Term 1150-121Enterprise Clients150-153Virtualization3Solutions Architect3Credits9Fall Term 2150-173Cloud Technologies3Solutions Architect3Credits9Fall Term 1150-173Cloud Technologies800-108Employment Success9Fall Term 1107-103IT Business Strategies150-172Wireless Technology3	Spring Term 1		
Credits6Spring Term 2150-165150-165Cloud AWS801-136English Composition 13Credits6Second YearSummer Interim152-101Python Programming1Credits152-101Python Programming1Credits801-198Speech801-198Speech804-133Math & Logic3Credits6Fall Term 1150-121Enterprise Clients150-153Virtualization3150-166AWS Solutions Architect3801-197Technical Reporting3Solutions3Credits9Fall Term 2150-173Cloud Technologies3Solutions90-108Employment Success1Credits90-108Imployment Success1Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3	150-118	Switching Routing & Wireless	3
Spring Term 2150-165Cloud AWS3801-136English Composition 13Credits6Second YearSummer Interim152-101Python Programming1CreditsSummer Term801-198Speech3804-133Math & Logic3Credits6Fall Term 1150-121Enterprise Clients3150-166AWS Solutions Architect3Credits9Fall Term 2150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success1Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3	150-137	MS Server	3
150-165Cloud AWS3801-136English Composition 13Credits6Second Year9Summer Interim1152-101Python Programming1Credits1Summer Term3801-198Speech3804-133Math & Logic3Credits6Fall Term 150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits99Fall Term 21150-173Cloud Technologies3801-197Technical Reporting3801-197Technical Reporting3890-108Employment Success1Spring Term 11717 Business Strategies3150-172Wireless Technology3		Credits	6
801-136English Composition 13Credits6Second YearSummer Interim152-101Python Programming1Credits1Summer Term3801-198Speech3804-133Math & Logic3Credits6Fall Term 150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits99Fall Term 21150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim8890-108Employment Success1Spring Term 11717 Business Strategies3150-172Wireless Technology3	Spring Term 2		
Credits6Second Year5Summer Interim1152-101Python Programming1Credits1Summer Term8801-198Speech3804-133Math & Logic3Credits6Fall Term 11150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 21150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim8890-108Employment Success1Credits1Spring Term 11107-103IT Business Strategies3150-172Wireless Technology3	150-165	Cloud AWS	3
Second Year Summer Interim 152-101 Python Programming 1 152-101 Python Programming 1 Summer Interim 1 Credits 1 Summer Term 3 3 3 801-198 Speech 3 3 804-133 Math & Logic 3 3 Credits 6 6 Fall Term 1 5 150-121 Enterprise Clients 3 3 150-153 Virtualization 3 3 150-166 AWS Solutions Architect 3 3 07-0153 Cloud Technologies 3 3 801-197 Technical Reporting 3 3 07-103 Credits 6 6 Winter Interim 8 9 1 5 107-103 IT Business Strategies 1 3 107-103 IT Business Technology 3 3	801-136	English Composition 1	3
Summer Interim152-101Python Programming1Credits1Summer Term801-198801-198Speech3804-133Math & Logic3Credits6Fall Term 11150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3150-173Cloud Technologies3801-197Technical Reporting3801-197Technical Reporting3108Employment Success1Spring Term 111107-103IT Business Strategies3150-172Wireless Technology3		Credits	6
152-101 Python Programming 1 Credits 1 Summer Term 3 801-198 Speech 3 804-133 Math & Logic 3 Credits 6 3 Credits 6 5 Fall Term 1 50-121 Enterprise Clients 3 150-121 Enterprise Clients 3 150-153 Virtualization 3 150-166 AWS Solutions Architect 3 Credits 9 5 Fall Term 2 1 5 150-173 Cloud Technologies 3 801-197 Technical Reporting 3 801-197 Technical Reporting 3 890-108 Employment Success 1 Credits 1 1 Spring Term 1 1 1 107-103 IT Business Strategies 3 150-172 Wireless Technology 3	Second Year		
Credits 1 Summer Term 801-198 Speech 3 804-133 Math & Logic 3 Credits 6 6 Fall Term 1 1 50-121 Enterprise Clients 3 150-121 Enterprise Clients 3 3 150-153 Virtualization 3 150-166 AWS Solutions Architect 3 3 150-166 3 Fall Term 2 1 50-173 Cloud Technologies 3 3 801-197 Technical Reporting 3 3 3 801-197 Technical Reporting 3 3 801-197 Technical Reporting 3 3 801-197 Technical Reporting 3 3 800-108 Employment Success 1 1 Spring Term 1 1 1 1 107-103 IT Business Strategies 3 3 150-172 Wireless Technology 3	Summer Interim		
Summer Term801-198Speech3804-133Math & Logic3Credits6Fall Term 11150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 2150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success15pring Term 11Spring Term 11107-103IT Business Strategies33150-172Wireless Technology3	152-101	Python Programming	1
801-198Speech3804-133Math & Logic3Credits6Fall Term 11150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 21150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim8890-108Employment Success1Credits1Spring Term 11107-103IT Business Strategies3150-172Wireless Technology3		Credits	1
804-133Math & Logic3Credits6Fall Term 1150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 21150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim1890-108Employment Success1Credits1Spring Term 11107-103IT Business Strategies3150-172Wireless Technology3	Summer Term		
Credits6Fall Term 1150-121150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 2150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success1Credits1Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3	801-198	Speech	3
Fall Term 1150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 2150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success1Credits11Spring Term 111107-103IT Business Strategies3150-172Wireless Technology3	804-133	Math & Logic	3
150-121Enterprise Clients3150-121Enterprise Clients3150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 2150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success1Credits1Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3		Credits	6
150-153Virtualization3150-166AWS Solutions Architect3Credits9Fall Term 2150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success1Credits1Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3	Fall Term 1		
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 1 1 Spring Term 1 1 1 1 107-103 IT Business Strategies 3 3 150-172 Wireless Technology 3 3	150-121	Enterprise Clients	3
Credits9Fall Term 2150-173Cloud Technologies3801-197Technical Reporting3Credits6Winter Interim890-108Employment Success1Credits1Credits1Spring Term 111107-103IT Business Strategies3150-172Wireless Technology3	150-153	Virtualization	3
Fall Term 2 150-173 Cloud Technologies 3 801-197 Technical Reporting 3 Credits 6 Winter Interim 890-108 Employment Success 1 Credits 1 1 1 Spring Term 1 1 1 1 107-103 IT Business Strategies 3 3 150-172 Wireless Technology 3 3	150-166	AWS Solutions Architect	3
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	9
801-197 Technical Reporting 3 Credits 6 Winter Interim 890-108 Employment Success 1 Credits 1 Credits 1 Spring Term 1 107-103 IT Business Strategies 3 150-172 Wireless Technology 3	Fall Term 2		
Credits6Winter Interim890-108Employment Success1890-108Employment Success1Credits1Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3	150-173	Cloud Technologies	3
Winter Interim890-108Employment Success1Credits1Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3	801-197	Technical Reporting	3
890-108Employment Success1Credits1Spring Term 11107-103IT Business Strategies3150-172Wireless Technology3		Credits	6
Credits 1 Spring Term 1 1 107-103 IT Business Strategies 3 150-172 Wireless Technology 3	Winter Interim		
Spring Term 1107-103IT Business Strategies3150-172Wireless Technology3	890-108	Employment Success	1
107-103IT Business Strategies3150-172Wireless Technology3		Credits	1
150-172 Wireless Technology 3	Spring Term 1		
	107-103	IT Business Strategies	3
Credits 6	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	Internship - IT	1
	Credits	1
	Total Credits	62