



eCampus Academy
Watertown Unified School District
111 Dodge Street
Watertown, WI 53094
(920) 262-1420
ecampusacademy.org

IT-NETWORK SPECIALIST PATHWAY – Course Descriptions

Gateway to Success - Course Number: 890-155 Credits: 1.00

In this course, students explore the Gateway Technical College community. They examine college resources and services, investigate skills that lead to academic success, and identify strategies for achieving educational and personal goals.

IOT: Connecting Devices - Course Number: 150-182 Credits: 3.00

In this course, learners are introduced to the interconnection of data, people, processes and things that forms the Internet of Things (IoT). Learners will differentiate among smart devices, connected devices, and Internet of Things (IoT) devices. Machine-to-machine (M2M), machine-to-people (M2P), and people-to-people (P2P) connections in an IoT solution will be examined. Security concerns that must be considered when implementing IoT solutions will be investigated. Upon completion of the course, learners will be able to communicate with data over networks to IoT frameworks.

IT In Business - Course Number: 107-011 Credits: 3.00

This course is a basic introduction to Information Technology (IT) and how it impacts our lives. It will focus on how IT professionals implement industry tools and applications throughout businesses. Students will learn proper terminology as well as industry trends and concepts.

Network Concepts CCNA1 - Course Number: 150-114 Credits: 3.00

This course will provide you with more in depth networking concepts. Topics will include the Internet, OSI model, wireless, security, logical and physical topologies, instant messaging, basic router setup and switch configuration, network connectivity, and hardware and software configurations. You will also learn how to create local area networks and wide area networks. Individuals will learn real-world skills related to employment.

Quantitative Reasoning - Course Number: 804-135 Credits: 3.00

This course is intended to develop analytic reasoning and the ability to solve quantitative problems. Topics to be covered may include: construction & interpretation of graphs; descriptive statistics; geometry & spatial visualizations; math of finance; functions and modeling; probability; and logic. Appropriate use of units and dimensions, estimates, mathematical notation, and available technology will be emphasized throughout the course.

English Composition - Course Number: 801-136 Credits: 3.00

This course is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing and revising are applied through a variety of activities. Students will analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals will develop critical reading skills through analysis of various written documents.

IT Essentials - Course Number: 107-193 Credits: 3.00

IT Essentials focuses on the relationship between hardware and system software. The course topics include PCs, peripherals, networking, security, troubleshooting, and communication skills. IT Essentials is an introductory course that presents a foundation toward the pursuit of CompTIA A+ certification.

IT Scripting - Course Number: 150-145 Credits: 3.00

This course is designed to provide an overview of modern scripting languages commonly used to build and extend network administration and security tools. The course will introduce the student to scripting on both the Microsoft and Linux platforms. Students will explore the uses of scripting languages and third party modules for accomplishing tasks including scanning, enumeration and automation of network tasks.



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Network Admin Microsoft Server 1 2019 - Course Number: 150-119 Credits: 3.00

In this Microsoft Official Academic Course (MOAC) students examine installation, configuration, and storage options in the Windows Server 2019 environment. Students explore processes to maintain, secure, and monitor server performance. Upon completion of the course, students will be prepared to take the Microsoft Certified Solutions Associate (MCSA) Windows Server 2019 exam.

Introduction to Psychology - Course Number: 809-198 Credits: 3.00

This course introduces students to some of the major theories and topics of psychology, including the physiological basis of behavior, personality and learning theories, memory, states of consciousness, stress, research methods, intelligence, human development, psychopathology, and social behavior.

Network Admin Microsoft Server 2 2019 - Course Number: 150-120 Credits: 3.00

In this Microsoft Official Academic Course (MOAC) students examine networking options in the Windows Server 2019 environment. Students explore DNS, DHCP, IP address management, connectivity solutions, and advanced network infrastructure. Upon completion of the course, students will be prepared to take the Microsoft Certified Solutions Associate (MCSA) Windows Server 2019 exam.

Routing CCNA 2 - Course Number: 150-124 Credits: 3.00

Provides classroom and lab experience in current and emerging networking technology. Includes the following networking concepts and technologies: OSI reference model, LANs, WANs, TCP/IP addressing, routers, router configuration, routed and routing protocols, Internetwork Open System (IOS) images and network troubleshooting. Students will become familiar with the use of commands and protocols that are used when configuring networks and will learn how to troubleshoot a multi-router topology.

Introduction to Sociology - Course Number: 809-196 Credits: 3.00

This course examines interpersonal relationships of humans and groups and the consequent structure of society. It details the various social processes and concepts which shape human behavior, analyzing such phenomena as organizations, deviance, race and ethnic relations, population, urbanization, social change, and social movements. Religion, education, and the family are studied.

Cloud Technologies - Course Number: 150-181 Credits: 4.00

In this course, learners are introduced to different cloud computing infrastructures. Learners will develop skills for architecting the best cloud infrastructure solution for a business' goals. Cloud virtualization technologies will be examined and cloud solutions will be deployed. Cloud-related virtualization, networking, management, storage, security, and performance will be explored. Upon completion of the course, students will be able to deploy technology solutions within the cloud based infrastructure.

Network Security - Course Number: 150-194 Credits: 3.00

Students will learn how to maintain security in the workplace. Security plans will be created based on, but not limited to, ten key security technologies: access control, network security, management security procedures, systems development security, cryptography, security models, operations security, disaster recovery, laws and ethics, and physical security.

Red Hat Enterprise Linux I - Course Number: 150-150 Credits: 3.00

In this course, learners explore key command line concepts and enterprise-level tools. They investigate foundational Linux skills and core tasks such as file management; file systems and storage; and the update, install, and configuration of software packages. Learners administer users and groups. Upon successful completion of this course and the second course in this series (Red Hat System Administration II), learners will be prepared to take the Red Hat Certified System Administrator (RHCSA) exam.



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Technical Reporting - Course Number: 801-197 Credits: 3.00

The student will prepare and present oral and written technical reports. Types of reports may include lab and field reports, proposals, technical letters and memos, technical research reports, and case studies. This course is designed as an advanced communication course for students who have completed at least the prerequisite introductory writing course.

IT Job Search Skills - Course Number: 107-013 Credits: 1.00

Learn how to start your IT job search! Students will develop a job search plan and prepare a professional job search portfolio. Different job search tools will be utilized in order to assist the student in finding the best job for them. Current job searching trends and interviewing techniques will be discussed and applied.

Red Hat Enterprise Linux II - Course Number: 150-151 Credits: 3.00

In this course, learners explore key tasks needed to become a Linux administrator. They build on foundational Linux skills as they learn to manage security and system access; execute shell scripts; automate repetitive tasks; manage storage devices, logical volumes, and file systems; and install Red Hat Enterprise Linux using scalable methods. Upon successful completion of this course learners will be prepared to take the Red Hat Certified System Administrator (RHCSA) exam.

Server Technologies - Course Number: 150-136 Credits: 3.00

Learn advanced server technology skills to prepare you to support a production server. These skills include server upgrades, fault tolerance, advanced networking, disaster planning and more. Develop a basic technology plan which includes server management and disaster recovery plans. This class will also prepare you to take the CompTIA's Server+ industry certification exam.

VCP: Virtualization Technologies - Course Number: 150-183 Credits: 3.00

In this course, learners are introduced to Enterprise virtualization using VMware vSphere, ESXi and vCenter. Through hands-on experience, learners install, configure, and manage VMware vSphere environments. Storage and networking concepts related to virtualization are examined. Upon completion of the course, learners will be prepared to take the VCP certification exam.