

# Systems and Security Administrator Program



**Systems and Security Career Foundation** *(5 Days or 8 Evenings)* This course is an introduction to the Systems and Security Administrator program, career options, and the strategies and resources to optimize academic and career success. It also includes a Microsoft Office 365 license and training on Word, Excel, PowerPoint, Outlook, OneNote, and OneDrive.

**Help Desk Fundamentals 1** *(5 Days or 8 Evenings)* In this course, students are taught the basic components of computer hardware, peripheral components and operating systems, along with best practices for installation, configuration, deployment and sustainability for a small office/home office (SOHO) environment.

**Help Desk Fundamentals 2** *(5 Days or 8 Evenings)* In this course, students are taught the fundamental knowledge of understanding, creating, maintaining, and troubleshooting interconnectivity for a SOHO networked environment. Students also gain valuable trouble-shooting experience by working with a simulated help desk ticketing system.

**Networking Fundamentals 1** *(5 Days or 8 Evenings)* This course expands on networking fundamentals and introduces students to installing Windows DHCP and Routing. Students are taught the essentials regarding Cisco network devices and become familiar with Cisco IOS commands.

**Networking Fundamentals 2** *(5 Days or 8 Evenings)* In this course, students are taught the fundamentals of Wireless LANs and Wide Area Networks. Students also learn network security, network operations, and network planning as well as the configuration, management, and troubleshooting Windows DNS.

**Microsoft Windows PowerShell Programming for System Administration** *(5 Days or 8 Evenings)* This course introduces students to the fundamentals of PowerShell programming syntax. PowerShell provides control of the Windows operating systems from a single command line interface and is a powerful tool for automating administrative tasks.

**Microsoft Windows System Administration 1** *(5 Days or 8 Evenings)* This course introduces students to the concepts of creating and managing a Windows domain using Active Directory Domain Services (ADDS). Students are taught how to access computers remotely and use remote server management tools to configure and troubleshoot servers.

**Microsoft Windows System Administration 2** *(5 Days or 8 Evenings)* This course focuses on teaching students how to setup a virtualized file server. Students are taught disk management, configuration of permissions and setup of file shares, and creation of data backups. The curriculum also includes configuring and managing computer and user settings with Group Policy.

**Microsoft Windows System Administration 3** *(5 Days or 8 Evenings)* In this course, students learn how to manage two common networking services: Windows Deployment Services (WDS) and Windows Server Update Services (WSUS). Students are also introduced to the popular database language SQL and use SQL to extract information from a database. This course also includes an opportunity for students to complete a full-scale, virtualized, network build from the ground up.

**Linux Administration** *(5 Days or 8 Evenings)* This course focuses on the installation and configuration of the enterprise class Linux distribution called CentOS. Topics include installing, navigating, and configuring CentOS using command-line, and management of several network related services, including email. Courseware also includes configuring and managing a firewall using the popular Pfsense.

**CompTIA Security+ Exam Preparation Bootcamp** *(5 days or 8 evenings)* Passing CompTIA's Security+ exam is an excellent way to demonstrate understanding of the fundamentals of IT security. The curriculum in this course is designed to help students efficiently prepare and pass CompTIA's Security+ certification exam.

**Comprehensive Systems Project 1** *(5 Days or 8 Evenings)* Building the best possible IT infrastructure is a combination of knowing the technology, collaborating ideas with other IT professionals, and accepting feedback to better improve the outcome. This course challenges students to work together as a team to design and implement a mock business IT network solution. Students have access to physical and virtualized servers capable of running Windows or Linux operating systems; physical Cisco switches and routers will be provided for full network implementation.

**Comprehensive Systems Project 2** *(5 Days or 8 Evenings)* Continuing with the progression of creating a complete business IT solution, students will work together as a team to analyze, improve, and troubleshoot their existing network build. Students will document their achievements and present the network design, along with implementation details, at the end of this course.

Systems and Security Administrator Hybrid Program 2/1/21 Night			
Course	Total Days	Days on Prem	Dates
Systems & Security Career Foundation	4	Mon	2/1 – 2/4
Help Desk Fundamentals 1	8	Mon – Tues	2/8 – 2/11 & 2/15 – 2/18
Help Desk Fundamentals 2	8	Mon – Tues & Wed – Thurs	2/22 – 2/25 & 3/1 – 3/4
Self-Paced Week			3/8 – 3/12
Networking Fundamentals 1	8	N/A	3/15 – 3/18 & 3/22 – 3/25
Networking Fundamentals 2	8	N/A	3/29 – 4/1 & 4/5 – 4/8
Self-Paced Week – Review and Take Network+ Exam			4/12 – 4/16
Microsoft Windows PowerShell Programming for System Administration	8	N/A	4/19 – 4/22 & 4/26 – 4/29
Microsoft Windows System Administration 1	8	N/A	5/3 – 5/6 & 5/10 – 5/13
Microsoft Windows System Administration 2	8	N/A	5/17 – 5/20 & 5/24 – 5/27
Microsoft Windows System Administration 3	8	Thurs – Fri (Week 2 Only)	6/1 – 6/4 & 6/7 – 6/10
Self-Paced Week – Exam Prep			6/14 – 6/18
Linux Administration	8	N/A	6/21 – 6/24 & 6/28 – 7/1
CompTIA Security+ Exam Preparation Bootcamp	8	N/A	7/5 – 7/8 & 7/12 – 7/15
Comprehensive Systems Project 1	8	Wed – Thurs	7/19 – 7/22 & 7/26 – 7/29
Comprehensive Systems Project 2	8	N/A	8/2 – 8/5 & 8/9 – 8/12

Class Times are Monday – Thurs from 6:00 PM – 10:00 PM | Holiday weeks may result in schedule adjustment(s)