ITS - Information Technology Systems

ITS 110. Introduction to Networking and Cabling. 3 Credits. (2 Lec, 1 Lab) F
Provides student current and emerging network technology information and hands-on exposure to networking skills, that will empower them to enter employment or further education and training in the computer networking field.

ITS 142. CCNA 2: Discovery. 4 Credits. (2 Lec, 2 Lab) F
COREQUISITES: ITS 110 Students will learn basic design, configuration, and troubleshooting of routers and switches to resolve common issues in small to medium networks. Students learn how to configure a router and a switch for basic functionality.

ITS 163. Windows and Configuration. 4 Credits. (2 Lec. 2 Lab)
Intensive introduction to multitasking operating systems and network operating systems. Operating system upgrades/configuration, installation procedures, security issues, backup procedures, remote access, command line, and graphical user interfaces. Second of a two-course sequence covering the A+ certification objectives.

ITS 164. Networking Fundamentals. 3 Credits. (2 Lec, 1 Lab) F
COREQUISITE: ITS 140. This course should be taken as a co-requisite if student is attending part-time. ITS 140 should be taken first semester and ITS 142 2nd semester along with this course. This course is an introduction to networking fundamentals with both lecture and hands-on activities. Topics include the OSI model and industry standards, network topologies, IP addressing (including subnet masks), and basic network design. Concepts are reinforced with lab activities using equipment in live and simulated environments.

ITS 170. Microsoft Windows Server. 4 Credits. (2 Lec. 2 Lab)
This course gives you in-depth coverage of the 70-410 certification exam objectives and focuses on the skills you need to install and configure Windows Server 2012/R2. After you finish this course, you'll have an in-depth knowledge of Windows Server 2012/R2, including installation, local and remote management, file and storage services, Active Directory, group policies, TCP/IP, networking services, and Hyper-V virtualization. Both the original release of Windows Server 2012 and the R2 release are covered.

ITS 218. Network Security. 3 Credits. (1 Lec. 2 Lab)

ITS 224. Introduction to Linux. 4 Credits. (2 Lec. 2 Lab)
This course is intended for students who want to learn about the Linux operating system and prepare to pass the Linux certification exam from CompTIA (Powered by LPI). It does not assume any prior knowledge of Linux and is geared toward those interested in systems administration as well as those who will use or develop programs for Linux systems. The course covers comprehensive coverage of topics related to Linux certification, including Linux distributions, installation, administration, X-Windows, networking, and security.

ITS 271. Securing Desktop/Mobile Devices. 4 Credits. (2 Lec, 2 Lab) F
This course is an introduction to technologies, terminology, and skills used in the world of mobile security. Students will learn to apply best practices, examine security trends, and secure mobile device within the network.

ITS 272. Cyber Defense. 3 Credits. (1 Lec, 1 Lab) S
Information security and risk management, access controls, application security, disaster recovery planning, cryptography, capstone project and legal aspects of information security.

ITS 274. Ethical Hacking and Network Defense. 3 Credits. (2Lec, 1 Lab) S
This course provides an in-depth understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will learn updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Also covered is a thorough update of federal and state computer crime laws, as well as changes in penalties for illegal computer hacking.

ITS 280. Computer Repair Maintenance. 4 Credits. (4 Lec) S
This course teaches advanced hardware theory and practical application with the emphasis on individual computer components. Successful students will know how to identify and install appropriate computer hardware.