

## Degree Description

Introduces the operating systems, network security and networking.

### Marketable Skills

1. Understand and apply computing terminology and concepts used in the workplace- Critical Thinking/Communication. 2. Configure, use, and troubleshoot computer operating systems and/or application software Critical Thinking. 3. Use the Internet to locate, transfer, research and publish information at a level appropriate for the academic and work environment. Critical Thinking/Communication. 4. Install and evaluate desktop and network security protocols and principles- Critical Thinking.

<a href="#">ITSC 1305 Introduction to PC Operating Systems</a>	3 hours
<a href="#">ITSY 1342 Information Tech Security</a>	3 hours
<a href="#">ITCC 1314 CCNA 1: Introduction to Networks</a> <i>or</i> <a href="#">ITNW 1354 Implementing and Support Servers</a>	3 hours
	<b>9 hours</b>

**Total hours: 9 hours**

## Course Descriptions

### **ITSC 1305 Introduction to PC Operating Systems**

Introduction to personal computer operating systems, including installation, configuration, file management, memory and storage management, control of peripheral devices and use of utilities. Semester Hours 3 (2 lec/2 lab)

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### **ITSY 1342 Information Tech Security**

Instruction in security for network computer hardware, software, virtualization, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Topics may adapt to changes in industry practices. Students will learn to ensure the physical security of file servers and other network components using best practices; develop backup procedures to provide for data security; use network operating system features to implement network security; describe the nature of computer viruses, their methods of spreading, and means of protecting networks from viruses; use relevant tools to provide for network security; and use encryption techniques to protect network data. Semester Hours 3 (2 lec/2 lab)

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### **ITCC 1314 CCNA 1: Introduction to Networks**

Covers networking architecture, structure, and functions; introduces the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations to provide a foundation for the curriculum. Semester Hours 3 (2 lec/3 lab)

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### **ITNW 1354 Implementing and Support Servers**

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. This course prepares students to earn the CompTIA Server+ Certification Prerequisite: ITSC 1305. Semester Hours 3 (2 lec/2 lab)

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