

# Microsoft Network Operations

**Certificate in Applied Science****Credit Requirements: 27 Semester Credit Hours**

This program prepares you for computer network operations specialist jobs. It is ideal if you are employed or are pursuing employment in a business that uses the Microsoft Windows Server operating system in a LAN and/or WAN environment. This program is designed to prepare you for Microsoft Certifications Exams.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

**Recommended Sequence of Courses****First Semester**

CPT 102	Basic Computer Concepts	3
IST 161	Introduction to Network Administration	3
IST 220	Data Communications	3
		<b>Total 9</b>

**Second Semester**

IST 163	Internet Server Network Configuration	3
IST 165	Implementing and Administering Windows Directory Services	3
IST 166	Network Fundamentals	3
		<b>Total 9</b>

**Third Semester**

IST 164	Implementing Windows Network Infrastructure Services	3
IST 259	Electronic Messaging	3
IST 263	Designing Windows Network Security	3
		<b>Total 9</b>

# Mobile Application Programming

**Certificate in Applied Science****Credit Requirements: 21 Semester Credit Hours**

The Mobile Application Programming Certificate will provide students with the skills necessary to understand and develop computer programs for today's mobile phones. Students will be prepared for entry-level employment in mobile phone programming and in related fields. The focus of the

program will be the development of software for the Android mobile phone.

**Recommended Sequence of Courses****First Semester**

CPT 102	Basic Computer Concepts	3
CPT 232	C++ Programming I	3
		<b>Total 6</b>

**Second Semester**

CPT 172	Microcomputer Database	3
CPT 233	C++ Programming II	3
		<b>Total 6</b>

**Third Semester**

CPT 236	Introduction to Java Programming	3
IST 220	Data Communications	3
		<b>Total 6</b>

**Fourth Semester**

IST 235	Handheld Computer Programming	3
		<b>Total 3</b>

# Network Security

**Certificate in Applied Science****Credit Requirements: 24 Semester Credit Hours**

This program is designed for individuals who have experience or training in network operations. This program prepares you for network security specialist jobs. It is ideal if you are employed or are pursuing employment in a business that uses a LAN and WAN environment to accomplish its business objectives. This program presents the knowledge and skills needed to use the Internet as a secure link between corporate and partner LANs. It is designed to help you prepare for a number of certification examinations including CompTIA: Security+ and Microsoft: Designing Security for a Microsoft Windows Network.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

**Recommended Sequence of Courses****First Semester**

CPT 102	Basic Computer Concepts	3
IST 220	Data Communications	3
		<b>Total 6</b>