

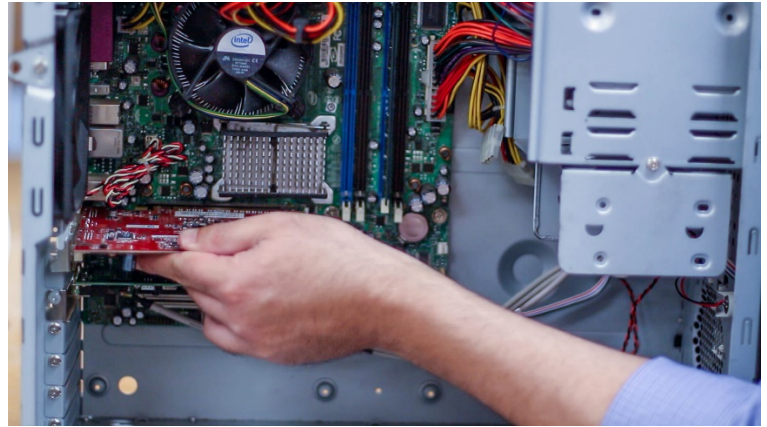
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# INFORMATION COMMUNICATION TECHNOLOGY

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## ABOUT THIS AREA OF STUDY

This area of study prepares students for entry-level employment and/or potential further study in the fields of Information Technology/Computer Maintenance. Students completing courses in this area will have a foundation for the field of Information Technology through the study and analysis of computer operations and will acquire skills and abilities in installing, configuring, upgrading, troubleshooting, and repairing microcomputer systems.



## WHAT YOU WILL LEARN

Install, configure, and diagnose, preventative maintenance, basic networking and security. Become familiar with networking, security, and system administration information needed to implement a Windows Server infrastructure. Learn to navigate Microsoft windows server technologies along with challenges with information technology storage, virtualization of applications, and network and server performance.

## WHERE DO YOU SEE YOURSELF?

Computer technician • Help desk specialist • Quality assurance specialist • Corporate trainer • Technical writer

**BECOME A  
COS GIANT!**

**PROGRAM CONTACT:**

Ramyar Alavi-Moghaddam  
(559) 730-3925  
ramyarm@cos.edu



Apply at [www.cos.edu/admissions](http://www.cos.edu/admissions) today!

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## DEGREES & CERTIFICATES OFFERED

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Associate of Science in Information  
Communication Technology (AS) – 60  
units

Skill Certificate in CISCO CCNA Academy – 16 units  
Skill Certificate in Computer and Network Support – 16 units

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## SOME CLASSES YOU MIGHT TAKE

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### **ICT 201 A+ CERTIFICATION PREP**

This course prepares the student for CompTIA A+ certification, which includes the latest foundation-level knowledge and skills needed by today's computer support professionals. It is the starting point for a career in the Information Technology industry. This international, vendor-neutral certification is accredited by the International Organization for Standards (ISO) and the American National Standards Institute (ANSI).

**CompTIA A+ certification proves competence in a technician's ability to perform essential IT tasks** such as installation, configuration, diagnosing, preventative maintenance, basic networking and security. It also confirms a technician's understanding of customer service and communication skills needed to work with clients.

### **ICT 210 SERVER/NETWORK INFRASTRUCTURE**

This course provides the student with networking, security, and system administration information needed to implement a Windows Server infrastructure. It covers the basics of installation and configuration, storage, network infrastructure, network components, network protocols, server roles, Active Directory Domain Services (AD DS), Group Policy, IT security, server security, network security, security software, monitoring server performance, and maintaining a Windows Server. This course includes the foundational level

knowledge to prepare students to start a career or cross train in Microsoft Windows Server technologies.

### **ICT 211 SERVER & NETWORK MANAGEMENT**

This course is designed to help make network and server infrastructure easier to manage, more resilient, more efficient, and more secure. The curriculum will discuss consolidation of server environments, a move to a hosted/cloud-based model, challenges of information and communication technology storage, virtualization workloads, virtual machine density, mobility, and availability, virtualization of applications, and network and server performance.

### **ICT 221 CISCO ACADEMY 1**

This is the first of four classes in the Information and Communication Technology CISCO Academy

Certificate Program. Instruction includes: safety; networking; protocols; standards; LANs; WANs; OSI models; cabling; cabling tools; routers; Ethernet; IP addressing and network standards.

### **ICT 223 CISCO ACADEMY 3**

This is the third course in the Information Technology CISCO Academy Certificate program. Instruction includes switching technologies; routing terminology and protocols; interface standards; programming and configuration of routers; VLANs; IP addressing and network standards.

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## REQUIREMENTS

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Please see our online catalog for specific requirements in this area: [www.cos.edu/catalog](http://www.cos.edu/catalog)