

INFORMATION AND COMMUNICATION TECHNOLOGY

Program Description

The Information and Communication Technology (ICT) program provides a comprehensive education combining theory with practical skills, preparing students for exciting careers in technology and communications. The program covers a wide range of topics, including computer systems, software development, network management, cybersecurity, data analytics, and telecommunications. It prepares students for careers in IT, telecommunications, and related industries through a blend of theoretical and hands-on training.

Program Highlights for Entry-Level Employees:

- **Computer Hardware and Software:** Business-class hardware and software; convergent data/voice/media communication technologies.
- **Computer Networks:** Networking principles, including LANs, WANs, and Internet protocols.
- **Windows Client Workstations:** How to deploy, configure, manage, secure, and maintain client workstations.
- **Security and Cybersecurity:** Basic knowledge to detect, analyze, and address cybersecurity threats using common open-source tools.
- **Telecommunications:** Understanding transmission systems, switching, and network protocols.
- **Cloud Computing:** Introductory knowledge of cloud services, architecture, and applications.
- **Computer Programming:** Fundamentals of programming languages like Python, Linux command line, and Microsoft Windows PowerShell.
- **Windows Server Hybrid Core Infrastructure:** Configuring and managing Windows Server workloads in the Azure cloud, on-premises, and hybrid environments.

Program Strengths:

- **Modern Labs:** Equipped with up-to-date technology, equipment, and software.
- **Industry-Aligned Coursework:** Aligned with national and international certifications, including:
 - Cisco, N+, CET, Convergence Technology Professional (CTP), CyberOps Associate.
 - CompTIA, Microsoft's AZ-800, Cybersecurity Analyst (CySA+), Microsoft MD-102, CompTIA A+ Core 1 (220-1101), Cloud+.
- **Hands-On Curriculum:** Application-based learning experiences.

Students can further their education by seamlessly transitioning to a Bachelor of Applied Science in Computer Information Systems or other select university programs.

Contact Information

CMU Tech

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2508 Blichmann Avenue
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Programs of Study Associates

- [Information and Communication Technology \(AAS\)](#)

Certificates

- [Computer Repair, Information and Communication Technology \(Technical Certificate\)](#)
- [Healthcare Information Networking, Information and Communication Technology \(Technical Certificate\)](#)
- [Help Desk Technician, Information and Communication Technology \(Technical Certificate\)](#)
- [Network Technician, Information and Communication Technology \(Technical Certificate\)](#)