

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

Office of Student Services
CMU Tech, Bishop B102
2508 Blichmann Avenue
970.255.2670

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 \(Technical Certificate\)](#)