COMPUTER INFORMATION TECHNOLOGY ITC

The Intermediate Technical Certificate (ITC) in Computer Information Technology is a two-semester program of study designed to prepare students for diverse career opportunities in the planning, implementation, security, and maintenance of computer and network communication systems for businesses of all sizes. The program builds the skills needed for roles in technical support, cybersecurity, network administration, and server administration, with training aligned to internationally recognized industry certifications and proprietary systems such as CompTIA, Microsoft, Cisco, Juniper, and Ubiquiti.

Students gain hands-on experience in areas such as microcomputer systems, data communications and security, cybersecurity fundamentals, operating systems, hardware and software analysis, virtualization, and troubleshooting techniques. The curriculum emphasizes the application of these skills in real-world settings using industry-standard tools and best practices.
Note: Some careers in this field may involve background checks and physical requirements that could impact a student's ability to perform certain job functions. Please consult with a program advisor for more information.

Entrance Requirements

- The program admits students each semester (Fall and Spring).
- Enrollment priority is on a first-come, first-served basis as determined by the student's faculty advising date.
- Writing Placement Exam (WPE) score of 2 or higher, or equivalent college placement exam scores.

Upon successful completion of the Computer Information Technology ITC program, students will be able to:

- Attempt industry certification exams including CompTIA A+, ITF+ (IT Fundamentals), Security+, Server+; and Cisco CCST.
- Apply industry-standard safety practices and protocols in IT environments, including proper handling of hardware, electrostatic discharge precautions, and cybersecurity hygiene.
- Use diagnostic tools and test equipment to troubleshoot and maintain computer systems and networks.
- Install, configure, upgrade, and maintain microcomputer hardware, peripherals, and operating systems, including Windows and Linux environments.
- Deploy and support client- and server-based software applications in business and enterprise settings.
- Configure and secure basic Linux systems, utilizing command-line tools for file management, process control, user and group permissions, and shell scripting.
- Implement core networking concepts such as IP addressing, subnetting, VLANs, switching, and routing technologies — including basic configuration of Cisco routers and switches.
- Design and troubleshoot local area networks (LANs), wireless LANs (WLANs), and structured cabling systems to meet business and technical requirements.
- Understand and apply cybersecurity concepts such as malware analysis, vulnerability assessment, cryptography, identity protection, social engineering prevention, and incident response.

Minimum Grade Requirement

- Students must earn a grade of C or higher in all required IT courses to receive credit for program graduation.

Intermediate Technical Certificate Requirements

Code	Title	Credits
General Education Requirements		
Written Communication		3.00
ENGL-101	WRITING AND RHETORIC I	
Mathematical Ways of Knowing		3.00-5.00
Select one of the following:		
MATH-123	MATH IN MODERN SOCIETY	
MATH-143	PRECALCULUS I: ALGEBRA	
MATH-147	PRECALCULUS	
MATH-153	STATISTICAL REASONING	
MATH-157	MATHEMATICS FOR ELEMENTARY TEACHERS I	
MATH-170	CALCULUS I	
MATH-253	STATISTICAL METHODS FOR THE SCIENCES	
MATH-257	MATHEMATICS FOR ELEMENTARY TEACHERS II	
MTHPT-130	FINITE MATHEMATICS	

MTHPT-137	MATH FOR TECHNOLOGY	
MTHPT-153	STATISTICAL REASONING	
Technical Core		
Take the following courses:		24.00
IT-231	INFORMATION SYSTEMS I	
IT-232	INFORMATION SYSTEMS II	
IT-251	NETWORKING I (CCNA 1: INTRODUCTION TO NETWORKS)	
IT-252	NETWORKING II (CCNA: SWITCHING, ROUTING, AND WIRELESS ESSENTIALS)	
IT-271	CYBERSECURITY I	
IT-272	CYBERSECURITY II	
Total Credits		**30.00-32.00**