Each program requires the completion of five core classes, a total of 15 units. **Classes are 3 units, unless noted.**

IT Support and Sales Certificate (MCE905) • 15 units

Courses	Description	Preparation
BUS-10	Introduction to Business	
BUS-24	Business Communication	
BUS-47	Applied Business & Management Ethics	
CIS-1A	Introduction to Computer Information Systems	
CIS-25	Information & Communication Technology Essentials	**Comp TIA A+**

Program Learning Outcomes

- Troubleshoot computer hardware and software issues.
- Install and configure systems for personal and business usage.
- Configure home and small business networking, and security settings.
- Assist customer service with technical issues.
- Apply business and communication practices in a technical system services, incuding maintenance and support services.

IT Systems Specialist Certificate (MCE937) • 15 units

Courses	Description	Preparation
CIS-21	Introduction to Operating Systems	
CIS-27	Information & Network Security	**CompTIA Security+**
CIS-40A	Computer Network Fundamentals	**CompTIA Network+**
CIS-40C	Installing, Configuring & Administering Microsoft Operating Systems	**Microsoft Administration** **CompTIA Server+**
CIS-40D	Systems & Network Administration	**Microsoft Administration**

Program Learning Outcomes

- Assist user and system support with technical problems.
- Troubleshoot computer hardware and software issues.
- Configure network appliances and maintain network infrastructure in an organization environment.
- Perform system assessment for maintenance and upgrade plans for business operations.

The program requires the completion of four core classes, two elective classes and one math class, a total of 24 units. ***Classes are 3 units, unless noted.***

Required Courses (MCE958) • 24 units

Courses	Description	Preparation
CIS-1A	Introduction to Computer Information Systems	
CIS/CSC-5	Programming Concepts & Methodology I:C++ 4 units	
CIS-25	Information & Communication Technology Essentials 4 units	**Comp TIA A+**
CIS-26A	Cisco Networking Academy 1A	
or CIS-40A	Computer Network Fundamentals	**CompTIA Network+**
Select two:		
CIS/CSC-2	Fundamentals of Systems Analysis	
CIS/CSC-21	Introduction to Operating Systems	
CIS-27	Information & Network Security	**CompTIA Security+**
CIS-27A	Computer Forensics Fundamentals	
CIS-27B	Introduction to Cybersecurity: Ethical Hacking	**ISC2 Certified Ethical Hacker** **CompTIA Pentest+**
CIS-26B	Cisco Networking Academy 1B	
or CIS-40B	Routing & Switching Essentials	**Cisco Routing & Switching**
CIS-61	Introduction to Database Theory	
BUS-24	Business Communication	
Select one:		
MAT-1A	Calculus I 4 units	
MAT-5	Calculus for Business & Life Science 4 units	
MAT-12	Statistics 4 units	

Program Description

The Information Technology model curriculum provides students with proficiency in the areas of computer system support, hardware and software troubleshooting, network configuration, infrastructure maintenance, and security assessment of business information systems.

For more information, contact

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