



## **ASSOCIATE OF APPLIED SCIENCE IN INFORMATION TECHNOLOGY-NETWORKING**

When students complete an Associate of Applied Science (AAS) in Information Technology (IT) - Networking degree at MACC they will be able to:

- Describe the components of a computer system, relate the function of CPU, memory, storage, and network resources and how the software interfaces with hardware.
- Explain basic network protocols and their relationship in the context of the OSI model and TCP/IP Framework.
- Demonstrate a familiarity with common operating systems.
- Plan, implement and troubleshoot networks using routers, switches, vlans, firewalls, PCs, printers and servers.
- Effectively communicate technical information to a diverse audience with varying degrees of technical knowledge
- Demonstrate research and development of solutions that prepare for a career of lifelong learning.
- Demonstrate contribution as a team member or leader in a networking development project
- Explain the concepts of confidentiality, availability, and integrity. Analyze situations, discern vulnerabilities, and recommend physical, logical, or administrative controls to mitigate threats.
- Demonstrate professional responsibility and actions.

**This is our program promise.**