

# CISCO NETWORKING AND SECURITY TECHNOLOGIES - ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Explore More About This Program: <https://cwi.edu/program/cisco-networking-and-security-technologies>

## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Use network protocol models to explain the layers of communication in data networks for use in network design and troubleshooting.
- Demonstrate an understanding of switching concepts and LAN design to include the use of Virtual LANs with LAN trunking configured by the Spanning Tree Protocol.
- Install, configure and verify switches for network operation.
- Demonstrate an understanding of routing fundamentals, subnets, and IP addressing schemes.
- Configure and verify routers for network operation.
- Design, plan, implement, operate, and troubleshoot wired and wireless networks.
- Exhibit competencies of Written Communication (GEM 1), Oral Communication (GEM 2), Mathematical Ways of Knowing (GEM 3), Social and Behavioral Ways of Knowing (GEM 6), and other approved three-credit general education course.