

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.
- Use Cisco CLI commands to perform basic router and switch configuration and verification.
- Configure and verify router interfaces.
- Use advanced configuration commands with routers implementing EIGRP.
- Troubleshoot common network problems at Layers 1, 2, 3, and 7 using a layered model approach.
- Configure, verify, and troubleshoot VLANs, interVLAN routing, VTP, trunking on Cisco switches, and RSTP operation.
- Configure, verify, and troubleshoot DHCP and DNS operation on a router.
- Configure and verify a PPP connection between Cisco routers and Frame Relay on Cisco routers.
- Configure, verify, and troubleshoot storage area networks.
- Configure, verify, and troubleshoot enterprise virtualization.
- 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.