NETWORK AND SYSTEM ADMINISTRATION - ADVANCED TECHNICAL CERTIFICATE (ATC)

Explore More About This Program: https://cwi.edu/program/network-and-system-administration

Program Outcomes
The following are student learning outcomes for the Advanced Technical Certificate in Network and System Administration at CWI:

1. Graduates will install and configure a client operating system and demonstrate proficiency in file permissions, disk management, and peer-to-peer user and group management.
2. Graduates will create network addressing schemes, test and troubleshoot networks, configure and test routers and switches, and demonstrate the use of configuration tools.
3. Graduates will configure routing protocols, analyze data frames, and perform advanced subnetting with CIDR.
4. Graduates will install and configure a server operating system, network services, directory services, network printing, and group policy objects.
5. Graduates will install and configure a Linux operating system, network services within Linux, and file and folder security with Linux.
6. Graduates will install and configure a secure network environment, identify common security threats, implement cryptography solutions, and install and configure firewalls for perimeter security.
7. Graduates will install, configure, and troubleshoot domain controllers, directory services, virtual machines, and file services.
8. Graduates will install, configure, maintain, and troubleshoot a secure email messaging system and client.
9. Graduates will install, configure, maintain, and troubleshoot a database system.
10. Graduates will install, configure, and manage a virtual environment using vSphere.
11. Graduates will exhibit competencies of Written Communication (GEM 1), Oral Communication (GEM 2), Mathematical Ways of Knowing (GEM 3), and Social and Behavioral Ways of Knowing (GEM 6).