



Division of Science, Technology, Engineering and Mathematics

Computer Networking Certificate

This certificate program equips students with the knowledge and skills needed for system and network administration roles. Graduates will be able to manage, configure, and administer computer networks while applying IT and security best practices. Many courses in the program align with industry-recognized certifications in IT, computer networking, and cybersecurity. Upon completion, students will be well-prepared and encouraged to earn industry credentials by taking certification exams from leading networking and cybersecurity organizations.

Successful graduates of this Certificate degree will be able to:

1. Maintain and manage a small network of computers;
2. Use network diagnostics tools effectively to evaluate and analyze network issues;
3. Setup, configure, test, and maintain networking devices with effective and up-to-date techniques.
4. Use scripting language to implement solutions for network and system administration problems;
5. Identify security threats and vulnerabilities and mitigate the risks by choosing the best protection and prevention methods;
6. Understand the cryptographic systems and can select a cryptographic system based on a specific system's requirements;
7. Install and configure Linux as sole operating system or dual-boot and apply Linux systems administration skills,
8. Work effectively as a team member or lead on projects typical of an IT technician;