ETRO 240C : Cisco Networking 4

Credits: 3
Class Hours: 6 lecture/lab
Prerequisites: "C" or higher in ETRO 240B, or approval of instructor.
Recommended: Basic computer and internet usage skills.
Description: This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement virtual private network (VPN) operations in a complex network.
Semester Offered: Spring
Course Student Learning Outcomes (CSLOs):
1. Explain, configure, and troubleshoot serial and broadband connections.
2. Explain, configure, and troubleshoot tunneling operations.
3. Describe and differentiate network architectures to support borderless networks, data centers, virtualization, and collaboration technology solutions.
4. Monitor and troubleshoot network operations using industry accepted software based tools.
5. Describe and implement the operations and benefits of virtual private networks (VPNs) and tunneling.
6. Explain, configure, and troubleshoot Network Address Translation (NAT) operations.
7. Identify and contrast different Wide Area Network (WAN) technologies and their benefits.