CIT 160 - CISCO INTERNETWORKING I

Course Description

This course, in conjunction with CIT 161 and CIT 260 provides the necessary preparation to pass the Cisco CCNA Routing & Switching Exam (Cisco Certified Network Associate). The following topics are covered in detail: router configuration, static and dynamic routing, VLANs, ACLs, DHCP, and NAT. This course utilizes the Cisco Networking Academy "CCNA Routing and Switching: Routing and Switching Essentials" curriculum and integrates online curriculum, classroom activities, hands-on lab exercises, and group projects. Group 2 course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Recommended Prerequisites or Skills Competencies

CIT 213

General Education Outcomes supported by this course

Critical Thinking - Direct

Course Learning Outcomes

Knowledge:
- Describe the mechanics of internetworking protocol layers, devices, subnets, and addressing in IPv4 and IPv6 networks.

Application:
- Engineer simple Ethernet networks.

Integration:
- Analyze the required components of various IT careers.
- Problem-solve independently.

Human Dimension:
- Collaborate as team members and leaders using soft skills to achieve desired outcomes.

Caring - Civic Learning:
- Build robust networks to benefit the rest of the IT team.
- Reflect on how their role within an organization and community impact the productivity of others.

Learning How to Learn:
- Acknowledge that technology is constantly changing requiring new skillsets.
- Apply their knowledge to future certification exams.