

# CIT 160 - CISCO INTERNETWORKING I

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

## 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: basic switch and router configurations, OSI and TCP/IP models, IPv4 and IPv6 routing, and network security fundamentals. 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: