Syllabus

CSC 261 Routing and Switching

General Information

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Department
Computing Sciences

Course Prefix
CSC

Course Number
261

Course Title
Routing and Switching

Course Information

Credit Hours
3

Lecture Contact Hours
3

Lab Contact Hours
0

Other Contact Hours
0

Catalog Description
This course features extensive hands-on activities for current network administration/network engineering techniques used in industry today. Topics include the Cisco IOS, configuring routers and switches, SSH, creating LANs and WANs, VLANs, OSPF, ACLs, troubleshooting and more.

Prerequisites
CSC 260

Co-requisites
None

Grading Scheme
Letter

First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category
None

FLCC Values

Institutional Learning Outcomes Addressed by the Course
　　None

Course Learning Outcomes

Course Learning Outcomes

1. Configure an addressing scheme for a network

2. Configure routers and switches

3. Troubleshoot networking issues

Program Affiliation

This course is required as a core program course in the following program
　　AAS Computer Information Technology

Outline of Topics Covered

1. Syntax and usage of the Cisco IOS

2. Configuring a switch

3. Configuring a router

4. Constructing a WAN consisting of PCs, switches, routers, and cables from multiple LANs

5. Establishing remote connectivity to a switch and router with SSH

6. Configuring, testing, troubleshooting, and monitoring VLANs

7. Configuring, testing, troubleshooting, and monitoring OSPF

8. Configuring, testing, troubleshooting, and monitoring ACLs