

San Bernardino Valley College Course

CIS 163 Routing and Switching essentials

Spring 2022

This online course has no synchronous meetings.

Important Dates

Refer to college website for important dates.

Prerequisite

Refer to college catalog

Course Description

This course presents the architecture, components, and operations of routers and switches in a small network. Students will configure routers and switches for basic functionality. Students will configure and troubleshoot routers and switches and resolve common issues with wireless LANs static routing, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. This course is one of the courses required to prepare for Cisco Certified Network Associate (CCNA) certification exam.

Course Learning Outcomes

Students will be able to:

Describe basic switching concepts, VLANs, and inter-VLAN routing.

Configure and troubleshoot basic operations of a switched network, VLANs, and inter-VLAN routing.

Describe the purpose, nature, and operations of a router, routing tables, and the route lookup process

Describe and configure Dynamic Host Configuration Protocol (DHCP)

Configure and verify static routing and default routing.

Configure and troubleshoot basic operations of routers.

Textbook

You will be enrolled in <https://www.netacad.com/> which has the textbook online. This online book will be available for the entire term.

Grading Policy

Homework	100 points
Chapter Exams	50 points
Hands-On Skills- Final Exam	100 Points
Final Exam	100 Points
Hands-on Quiz/Lab Activities	100 Points
Discussion	Up to 50 Points

Grades:

- A = 90 - 100 %
- B = 80 - 89 %
- C = 70 - 79 %
- D = 60 - 69 %
- F = below 60%

Attendance

This online course has no set Zoom meeting.

Class and Lab Policies

The agenda for the week will be posted on Canvas. Your online textbook and exams are on Cisco Canvas.

Course Withdrawal

Do not stop attending this or any other course assuming that your instructor will discover this fact and withdraw you. If you wish to withdraw from this course, it is your responsibility to withdraw from class.

Obtain forms for an official withdraw from the Records/Registration Office and follow the procedure in the catalog.

Instructor

Bijan Houshiar

bijanhoushiar@gmail.com

Office: Zoom appointment

Office Hours
By appointment through email.
Number of Hours per Semester
54 hours of lecture
Supplies
None
Internet Access
To use course materials outside class/lab Internet access and a Windows computer are required

Late Assignments
There will 25% deduction for one week late. Assignments passed due by more than one week will not be accepted. Instructor may revise if there is a proper documentation. No late work will be accepted after term ends. Discussion has no makeup and will not be graded if submitted after due date.
Assignment Due Dates (Canvas)
Due dates are listed in Canvas.