

CCRI Networking Technology CCNP SWITCH CNVT-2030 Spring 2021

Instructor John Mowry
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Office Hours By Appointment Remote Only
Class Sections 104 Tues-Thur 6:00PM-9:50PM, starts 1/19, ends 5/6

Instructional Material and Web Sites

- 1 CCRI PowerPoint Presentations http://faculty.ccri.edu/jmowry/CCNP_SWITCH%202.htm
- 2 Cisco Academy Assessment Web Site <http://netacad.com>
- 3 Text Book Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide: (CCNP SWITCH 300-115), Richard Froom, Erum Frahim, ISBN-13: 978-1-58720-664-1
- Lab Book CCNP SWITCH Lab Manual, 2nd Edition, ISBN-13: 978-1-58713-401-2

Grading Policies

Skills:

Journal-Entries 5%
Labs and Class Participation 10%
Practical Final 50%

Academic:

Quizzes 10%
Final 25%

Course Objectives:

Student will be able to:

- Assess the structure and components used to build or expand an enterprise campus network.
- Implement VLANs in campus networks.
- Implement, monitor, and maintain spanning tree protocol in an enterprise campus network
- Implement, monitor, and maintain inter-VLAN routing in an enterprise campus network
- Configure and optimize high availability on switches to provide Layer 3 redundancy
- Describe and implement LAN security features
- Plan and prepare for advanced services in a campus infrastructure

Other Policies

1. The student expected to complete the On-Line lessons outside of class time.
2. All quizzes must be taken in class and will not be available from the student web site
3. Late assignments will be penalized 20 points.
4. Assignments late more than one class period will not be accepted.
5. All assignments must be completed using a word processor.

6. Students are responsible to see the instructor about any work missed due to absence.
7. Students who miss a quiz must take the quiz within two classes of the original quiz date.
8. Students are expected to participate as a member of teams
9. Students must pass both the Skills based portion in addition to the Academic portion of the curriculum to pass the course.
10. Student's final grade can only raise one letter grade above the on-line final exam score based on other class assignments.
11. Students are allowed a maximum of three (3) re-takes of chapter quizzes per the semester.
12. All re-takes must be completed prior to the final exam, without exception.
13. Department policy is that if you miss the equivalent of two (2) weeks of classes your final grade will drop by one (1) letter grade.

Networking Technology CCNP SWITCH Syllabus Spring 2021

Class	Lesson	Exam	Subjects	Labs
January 19	1		Fundamentals Review	Lab 1 Preparing the Switch
January 21	2		Network design Fundamentals	
January 26	3	2	Campus Network Architecture	
January 28				Lab 3-1 Static VLANS, Trunking, and VTP Lab 3-2 Etherchannel
February 2	4	3	Spanning Tree in Depth 2?	
February 4				Lab 4-1 Implementing Spanning Tree Protocols
February 9				Lab 4-2 Multiple Spanning Tree
February 11	5	4	Inter-VLAN Routing	
February 16				Lab 5-1 Inter-VLAN Routing
February 18				Lab 5-2 DHCP
February 23	6	5	First-Hop Redundancy	
February 25				Lab 6-1 First Hop Redundancy Protocols - HSRP and VRRP
March 2				Lab 6-2 Hot Standby Router Protocols for IPV6 Lab 6-3 Gateway Load Balancing Protocol (GLBP)
March 4	7	6	Network Management	
March 16				Lab 7-1 Synchronizing Campus Network Devices using Network Time Protocol (NTP)
March 18				Lab 7-2 Configure Campus Network Devices to Support Simple Network Management Protocol (SNMPv3)
March 23	8	7	Switching Features and Technologies for the Campus Network	

March 25				Lab 8-1 IP Service Level Agreements and Remote SPAN in a Campus Environment
March 30	9	8	High Availability	
April 1	10	9	Campus Network security	
April 6				Lab 10-1 Securing Layer 2 Switches
April 8				Lab 10-2 Securing VLANs
April 13		10	Open Lab	
April 15			Final Exam	
April 20			OPEN LAB	
April 22			OPEN LAB	
April 27			OPEN LAB	
April 29			Network Setup (2 hr Design/ Construction)	Lab Practical Final
May 4			Network Setup (2 hr Design/ Construction)	Lab Practical Final
May 6			Network Setup (2 hr Design/ Construction)	Lab Practical Final

Practical Exam Schedule will be chosen by computerized random draw!