

West Los Angeles College - Winter Semester 2016

Welcome To CS991 – Cisco/VMware Networking Laboratory

Instructor: Associate Professor Marcus E. Butler, MCSE, CCNA, VCP5-DCV

Course Schedule: Online, Section #: 8025

Please read, and then print this syllabus for reference:

- (1) This is a 100% online lab class with optional on-campus lab classes. In general, this format is called hybrid.
- (2) There are no exams or homework assignments. There are, of course, lab configuration assignments completed using NetLAB. Cisco router/switch, Microsoft, Security, and VMware ICM based labs are reserved using NetLAB. Instructions for accessing NetLAB are below.

Access NetLAB at the following IP address: netlab.wlac-csit.com

NetLAB accounts have been created and activated as follows:

Student Name = John Brown, SID #: 883456789

Username: jobr56789, Password: winter2016 (use when logging-in for the first time only)

After you login you will be requested to create your own personal (unique) Password while creating or updating your user profile. Once you create your own unique Password you must be sure to remember it or write it down.

Also, be sure to provide your email address when completing your user profile. If you fail to provide a valid email address in your profile you may miss important announcements generated by the website.

- (3) You will schedule your own labs, but you are expected to complete on average four or five labs a week. Most labs should take less than 2.0 hours to complete. You are expected to complete a certain number of labs per week. Your progress will be tracked via the NetLAB system.
- (4) You can and will prepare for your labs by using the materials provided in the Cisco Academy website, the LabSim training CD, Cisco optional textbook or VMware eBook. This includes; reading the Cisco Academy modules, viewing multimedia lectures and lab configuration demos, reviewing fact sheets, performing lab simulation exercises.
- (5) We will use "Private Messages" on the left-hand menu to communicate with each other. I will use ETUDES announcement system to publish important information. Once the course begins all questions, issues, or problems should be brought to my attention by sending emails to INSTRUCTOR (Marcus Butler) using the ETUDES "Private Message" system. In other words after the course start date do not sent emails related to this course to my WLAC email address.
- (6) All other college/class rules will be enforced.

Instructor Contact Information

Instructor: Associate Professor Marcus E. Butler
Office on Campus: CE230

Cisco Students:

Cisco students are expected to have experience working with the Cisco IOS command line and some exposure to Cisco hardware.

- CS972 (Introduction to Cisco Networking Fundamentals) or equivalent experience.

Microsoft Students:

Microsoft students are expected to have previous experience or exposure to Windows Server 2008 and/or 2012.

- CS965 (Introduction Computer Networks)
- CS982 (Intro. To Microsoft Server Operating System)

Security Students:

- CS980 (Introduction to Computer and Information Security)
- CS985 (Network and Information System Security)

Security students are expected to have previous experience or exposure to security topics and concepts.

VMware Students:

VMware students are expected to have a working understanding of the VMware Sphere environment, which includes; vSphere Client, vCenter, and ESXi Hosts.

- CS973/CS976 (VMware vSphere: Install, Configure, and Manage 5.x) or equivalent experience.

Course Materials

Required Course Material:

The NetLAB Student User Manual/Documentation is the only required materials. The manual is available as PDF document at the following link. There is no charge for this documentation:

http://www.netdevgroup.com/support/documentation/NETLAB_Student_Guide.pdf

Optional Cisco Course Material:

TestOut/LabSim Training Software Consisting of:

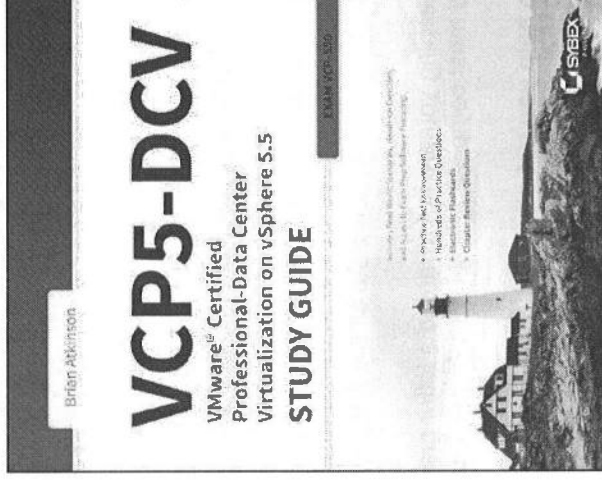
- Course Simulation (multimedia lectures)
- Lab Simulation (hands-on lab exercises)
- Exam Simulation (contents-based practice exams)

Use the following instructions to place your order directly with TestOut:

- What to order: CCNA LabSim (Exam: 200-120)



Optional VMware Course Materials – Study Guides:



http://www.amazon.com/VCP5-DCV-Certified-Professional-Data-VirtualizationvSphere/dp/1118658442/ref=sr_1_1?ie=UTF8&qid=1434404578&sr=8-1&keywords=vcp5dcv&pebp=1434404770222&perid=1918DE2C5A6A4930A8B6

3 rd	1/18/2016	<p>CS972 Suggested Labs:</p> <ul style="list-style-type: none"> 8.3.3 Configuring and Verifying Standard ACLs 8.3.4 Planning, Configuring and Verifying Ext ACLs 8.3.5 Configuring and Verifying Ext Named ACLs 8.3.6 Configuring and Verifying VTY Restrictions <p>CS974 Suggested Labs:</p> <ul style="list-style-type: none"> 9.2.2.7 Configuring and Verifying Standard ACLs 9.3.2.13 Configuring and Verifying Extended ACLs 9.4.2.7 Troubleshooting ACL Configuration and Placement 9.5.2.7 Configuring and Verifying IPv6 ACLs 10.1.2.4 Configuring Basic DHCPv4 on a Router 10.2.3.5 Configuring Stateless and Stateful DHCPv6 	<p>BRPv2 BRPv2 BRPv2 BRPv2</p> <p>MAP MAP MAP MAP MAP MAP</p>
		<p>CS972 Suggested Labs:</p> <ul style="list-style-type: none"> 8.5.1 Configuring ACLs & Verifying with Console Log. 8.5.2 Configuring ACLs and Recording Activity 9.3.1 Troubleshooting RIPv2 Routing Issues 9.3.3 Troubleshooting OSPF Routing Issues <p>CS974 Suggested Labs:</p> <ul style="list-style-type: none"> 11.2.2.6 Configuring Dynamic and Static NAT 11.2.3.7 Configuring NAT Pool Overload and PAT 11.3.1.5 Troubleshooting NAT Configurations 	<p>BRPv2 BRPv2 BRPv2 BRPv2</p> <p>MAP MAP MAP</p>

WEEK	DATES	LAB ASSIGNMENTS	POD
4 th	1/25/2016	<p>CS974 Suggested Labs:</p> <ul style="list-style-type: none"> 2.1.2.10 Building a Switched Network with Redundant Links 2.3.2.3 Configuring Rapid PVST+, PortFast, and BPDU Guard 5.1.1.9 Configuring Basic Single-Area OSPFv2 5.1.5.8 Configuring OSPFv2 Advanced Features 6.2.3.8 Configuring Multiarea OSPFv2 6.2.3.9 Configuring Multiarea OSPFv3 7.4.3.5 Configuring Basic EIGRP for IPv6 	<p>MAP MAP MAP MAP MAP MAP MAP</p>
	2/7/2016	Winter Semester Ends	

Cisco Pods: Topology Diagrams

BRPv2 - Basic Router Pod Version 2 (See Page-3 for Topology Diagram)

http://www.netdevgroup.com/content/cnap/documentation/NETLAB_Basic_Router_Pod_Version_2.pdf MAP

3. If you have not completed any VMware vSphere class(es), then you should start by taking CS973 during the Fall 2016 semester.
4. All labs are numbered and again must be completed sequentially
5. You should preview each lab before proceeding. NetLAB provides a lab preview for each lab as a link when you schedule a lab.

Read the NetLAB Users Manual to learn how to reserve labs using the Scheduler. Labs under the Scheduler have Exercise Names. Each exercise includes complete lab instructions under the Preview Lab hyperlink. Before performing a lab you should always print out a copy of the Preview Lab for that particular lab.

VMware vSphere Labs: Suggested Schedule

WEEK	DATES	LABS	LABS DESCRIPTIONS
1 ST	1/4/2016	ICM 5.5 Lab 0 ICM 5.5 Lab 1 ICM 5.5 Lab 2 ICM 5.5 Lab 3 ICM 5.5 Lab 4 ICM 5.5 Lab 5	Lab0: Installing ESXi Lab 1: Install VMware vSphere Graphical User Interfaces Lab 2: Configuring VMware ESXi Lab 3: Configure VMware vCenter Server Appliance Lab 4: Standard Virtual Switches Lab 5: Access iSCSI Storage
2 ND	1/11/2016	ICM 5.5 Lab 6 ICM 5.5 Lab 7 ICM 5.5 Lab 8 ICM 5.5 Lab 9	Lab 6: Accessing IP Storage Lab 7: Managing VMware vSphere VMFS Lab 8: Working with Virtual Machines Lab 9: Using Templates and Clones
3 RD	1/18/2016	ICM 5.5 Lab 10 ICM 5.5 Lab 11 ICM 5.5 Lab 12 ICM 5.5 Lab 13	Lab 10: Modifying a Virtual Machine Lab 11: Host Profiles Lab 12: Migrating Virtual Machines Lab 13: Managing Virtual Machines
4 TH	1/25/2016	ICM 5.5 Lab 14 ICM 5.5 Lab 15 ICM 5.5 Lab 16 ICM 5.5 Lab 17	Lab 14: Manage vApps Lab 15: Access Control Lab 16: User Permissions Lab 17: Resource Pools
5 TH	2/1/2016	ICM 5.5 Lab 18 ICM 5.5 Lab 19 ICM 5.5 Lab 20 ICM 5.5 Lab 21	Lab 18: Monitoring Virtual Machine Performance Lab 19: Using Alarms Lab 20: Using VMware High Availability Lab 21: VMware Distributed Resource Scheduler

Drop Policy

If you choose to drop a course, it is your responsibility to do so by the dates provided below. You may not be automatically dropped from your class for lack of participation.

Important Drop Dates for Winter 2016:

- Get a full refund: 1/6/16
- Last day to add a class:
 - Online: 1/3/16
 - In-person: 1/6/16
- File for "pass/no pass": 1/6/16
- Drop class without a "W": 1/6/16
- Drop class with a "W": 1/29/16

Special Needs and Disabled Students Policy

If you are a student with a disability and require accommodations, please send me a Private Message. The sooner I am aware of your eligibility for accommodations, the quicker I will be able to assist the Disabled Students Programs & Services (DSP&S) Office in providing them. The DSP&S Office provides special assistance in areas including: registration assistance specialized tutoring, academic and career guidance counseling, instructor liaison, special instruction and testing assistance. You can contact the Director of the DSP&S Office, Adrienne Foster, at fosteraa@wlac.edu describing the accommodations that are necessary.

Academic Integrity Statement

Academic integrity is a fundamental value of higher education and WLAC; therefore, acts of cheating, plagiarism, falsification or attempts to cheat, plagiarize or falsify will not be tolerated in this course. It is your responsibility to understand what plagiarism is and you can read about it here: <http://www.plagiarism.org>.

Any student caught cheating or plagiarizing will be subject to disciplinary action.

Online Student Resources

Online Student Helpdesk: <http://www.wlac.edu/online/helpdesk.asp>

Course Login: <http://www.wlac.edu/online/logininfo.asp>

Technical Requirements: <https://etudes-ng.fhda.edu/portal/site/igateway/page/4243c7b4-9b68-45fc-0016148ad08653aa>