

West Los Angeles College - Fall Semester 2013

Welcome To CS974 - Introduction to Cisco Routers

Instructor: Associate Professor Marcus E. Butler

Course Schedule: Online, Section #:8504

Please read and then print this syllabus for reference:

- (1) It is your responsibility to drop the class; failure to drop the class in a timely manner could result in a "W" or "F" on your record.
- (2) You have approximately 14 days to purchase any required material.
- (3) You must log on to ETUDES "Modules" and "Assignment" for course instructions. Starting the first week, you will have at least one assignment for every chapter and you will have at least one week to work on an assignment. Due dates for each assignment will be posted. Late assignments are accepted in moderation.
- (4) There are approximately 18 assignments. Please note that the solution for every assignment can be found in the Cisco Academy textbook or online curriculum. Assignment solutions are also posted by the instructor. Solutions are available after you have submitted your assignment. For most of the questions in the assignment, I will give full credit as long as your answer contains certain KEY WORDS.
- (5) There are currently 18 exams. Due dates for exams and assignments are posted in the "Assignments & Exams Schedule" table. On average, exams are available for a 30-day period. Each exam will start at 6:00am and will be available until 11:00pm on the last day an exam is available. Each exam is timed for 60 minutes. Exams will typically consist of multiple choice questions.
- (6) You will prepare for exams by using the materials provided in the Cisco Academy website, the TestOut training CD, and/or optional textbooks. This includes; reading the Cisco Academy modules, viewing multimedia lectures and lab configuration demos, reviewing fact sheets, performing lab simulation exercises, and taking the practice exams.
- (7) Exam scores related to this course are determined by the Cisco Academy website. Students will take all exams using the Cisco Academy website. The academy site will track exam scores and maintain a cumulative total, as well
- (8) We will use "Private Messages" on the left-hand menu to communicate with each other. After the course start date do not sent emails related to this course to my WLAC email address.
- (9) Lab Simulations and Demos are very important to skill development. Exam Simulations have answers and explanations which help to build your knowledge base.
- (10) All other college/class rules will be enforced.

Instructor's Office Hours

Instructor: Assistant Professor Marcus E. Butler, MCSE, VCP5

Class Schedule: On-Line

Office on Campus: CE230

Office Hours: Tuesdays, Wednesdays, and Thursdays from 3:00pm to 5:00pm

E-Mail: Butlerm@wlac.edu

Tel: 310-287-4447 (It is best to use email to reach me)

Course Student Learning Outcomes – SLO's:

- 1) At the end of the course, the successful student will be able to discuss and explain advanced routing protocols.
- 2) At the end of the course, the successful student will be able to manage advanced networks using STP, VLAN, and VTP.
- 3) At the end of the course, the successful student will be able to use Cisco IOS Commands to perform advanced administrative and troubleshooting tasks.

Course Objective:

This course prepares students to sit for the Cisco CCENT and CCNA certification exams. In addition, the course provides real world skills necessary to support today's complex networking environments. In general, students are introduced to; network concepts and fundamentals, network cabling, Ethernet concepts, networking devices; such as; routers and switches, network protocols, wide area network concepts, and network troubleshooting concepts and techniques.

Suggested Prerequisites:

CS972 – Introduction to Cisco Network Fundamentals

Course Series:

CS972 is the first of four courses that helps students prepare for the CCNA certification exam. This course is very demanding. The amount of technical materials students are required to master will present a challenge to any uncommitted student.

CS991 Winter is a Cisco networking lab designed to reinforce concepts introduced in CS972 by providing 24/7 access to Cisco routers and switches online. This lab is highly recommended as a way to keep current, prepare for CS974, and maintain academic momentum.

CS974 is the second course in the CCNA two-course series. Upon completion of CS972, it is assumed that students are well prepared for CS974. It is also important to emphasize the order in which these courses must be taken. Following the suggested course order assures students they have the appropriate technical background for each course.

CS991 Summer is a Cisco networking lab designed to reinforce concepts introduced in CS974. Students should also use this lab as final preparation for the CCNA certification exam. This is the last class/lab in the CCNA track.

Students taking online courses need to be discipline, self-motivated, and committed. You need to be prepared to commit the time required to master this material. This means viewing the multimedia lectures and concept demos numerous times, repeating the lab simulation exercises until they are second nature to you, and taking all of the assigned exam simulations. Online does not mean easy. It is probably just the opposite.

My suggestion is to approach this online course in the following manner:

- 1) Listen to the multimedia presentations.
 - 2) Observe concept and lab demonstrations.
 - 3) Perform lab simulation exercises.
 - 4) Take practice exams as necessary.
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Course Grading Scale

Exam scores related to this course are determined by the Cisco Academy website. Students will take all exams using the Cisco Academy website. The academy site will track exam scores and maintain a cumulative total, as well. Lab scores and results generated by completing simulated labs will be tracked by the TestOut software.

The ETUDES website will be used track homework assignments and maintain a cumulative total score.

Your final course grade will be based on 65% for exams, 35% (620 total points) for labs and homework assignments. CS974 will use Packet Tracer and NetLAB for numerous labs.

Instructor's Incomplete Policy

The request for an Incomplete is a common one. I have a formal and consistent policy to determine whether an incomplete makes academic sense and is possible.

- 1) My position is that a student who has successfully completed more than 75% of the course work and has a justifiable explanation should be considered for an Incomplete.
- 2) A student who has not successfully completed 75% or more and does not have justifiable circumstances would either be dropped (if possible), failed, or given a grade based on the course submitted to date.

Required material:

TestOut 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 Manual (Exam: 640-802)
- Where to order: www.testout.com
- Promotional Code: 14-346TA
- School Name: West Los Angeles College (enter exactly as shown)
- Instructor Name: Marcus Butler

This software requires Internet access. Full functionality/access is available for one year. Academic pricing: \$89 + Shipping + Tax. If you have any problem with ordering online you can reach Kelly Jorgensen at KJorgensen@testout.com or call 800.877.4889, Ext 234.

OPTIONAL Recommended Textbook:

- 1) Title: [Introducing Routing and Switching in the Enterprise, CCNA Discovery Learning Guide](#)

Author: Allan Reid, Jim Lorenz, and Cheryl Schmidt
Publisher: Cisco Press
ISBN-10: 1-58713-211-7
ISBN-13: 978-158713-211-7

- 2) Title: [Designing and Supporting Computer Networks, CCNA Discovery Learning Guide](#)

Author: Allan Reid & Jim Lorenz
Publisher: Cisco Press
ISBN-10: 1-58713-212-5
ISBN-13: 978-158713-212-4

The textbook can be ordered online from the WLAC bookstore. Go to www.wlac.edu and select "Services for Students", then select "Bookstore".

Each ETUDES assignment provides a cross-reference between the textbook chapter and the relevant TestOut section, for those students who have decided to purchase the textbook to use in conjunction with TestOut

The textbook chapters do not pair up one-to-one with TestOut. In some cases TestOut may address a topic in more detail than the textbook. You can expect the opposite to be true, as well. The end result is that they complement each other very well.

CS974 Fall 2013 Assignments/Exams Schedule (8504)

WEEK	DATES	CHAPTERS	ASSIGNMENTS	EXAMS
		CS974: Semester III		
1 st	8/26/2013	C1S3 – Networking in the Enterprise C2S3 – Exploring the Enterprise Network Infrastructure	Assignment: C1/S3 Assignment: C2/S3 (S:8/26 – D:9/2)	E1/E2 8/26 – 9/30 (C1/C2)
2 nd	9/02/2013	C3S3 – Switching in an Enterprise Network	Assignment: C3/S3 (S:9/2 – D:9/9)	E3 8/26 – 9/30 (C3)
3 rd	9/09/2013	C4S3 – Addressing in an Enterprise Network	Assignment: C4/S3 (S:9/9 – D:9/16)	E4 8/26 – 9/30 (C4)
4 th	9/16/2013	C5S3 – Routing with a Distance Vector Protocol	Assignment: C5/S3 (S:9/16 – D:9/23)	E5 8/26 – 9/30 (C5)
5 th	9/23/2013	C6S3 – Routing with a Link-State Protocol	Assignment: C6/S3 (S:9/23 – D:9/30)	E6 8/26 – 9/30 (C6)
6 th	9/30/2013	C7S3 – Implementing Enterprise WAN Links	Assignment: C7/S3 (S:9/30 – D:10/7)	E7 9/30 – 10/26 (C7)
7 th	10/07/2013	C8S3 – Filtering Traffic Using Access Control Lists	Assignment: C8/S3 (S:10/7 – D:10/14)	E8 9/30 – 10/26 (C8)
8 th	10/14/2013	C9S3 – Troubleshooting an Enterprise Network	Assignment: C9/S3 (S:10/14 – D:10/21)	E9 9/30 – 10/26 (C9)
		CS974: Semester III Final Exam		Final Exam 10/26 – 10/27

WEEK	DATES	CHAPTERS	ASSIGNMENTS	EXAMS
		CS974: Semester IV		
9 th	10/21/2013	C1S4 – Introducing Network Design Concepts C2S4 – Gathering Network Requirements	Assignment: C1/S4 Assignment: C2/S4 (S:10/21 – D:10/28)	E1/E2 10/28 – 12/1 (C1 & C2)
10 th	10/28/2013	C3S4 – Characterizing the Existing Network	Assignment: C3/S4 (S:10/28 – D:11/4)	E3 10/28 – 12/1 (C3)
11 th	11/04/2013	C4S4 – Identifying Application Impacts on Network Design	Assignment: C4/S4 (S:11/4 – D:11/11)	E4 10/28 – 12/1 (C4)
12 th	11/11/2013	C5S4 – Creating the Network Design	Assignment: C5/S4 (S:11/11 – D:11/18)	E5 10/28 – 12/1 (C5)
13 th	11/18/2013	C6S4 – Using IP Addressing in the Network Design	Assignment: C6/S4 (S:11/18 – D:11/25)	E6 10/28 – 12/1 (C6)
14 th	11/26/2013	C7S4 – Prototyping the Campus Network	Assignment: C7/S4 (S:11/25 – D:12/2)	E7 12/1 – 12/15 (C7)
15 th	12/02/2013	C8S4 – Prototyping the WAN	Assignment: C8/S4 (S:12/2 – D:12/9)	E8 12/1 – 12/15 (C7 & C8)
16 th	12/09/2013	C9S4 – Presenting and Implementing the Network Design	Assignment: C9/S4 (S:12/9 – D:12/15)	E9 12/1 – 12/15 (C9)
		CS974: Semester IV Final Exam		Final Exam 12/14 – 12/15
	12/15/2013	Fall Semester Ends		

Instructor Comments

All assignments and exams have due dates. You should be aware of these due dates at all times. There are no excuses for missing a due date. Is it your responsibility to submit assignments on or before a due date. It is your responsibility to purchase required course materials and be prepared. Treat this online course as you would any other campus-based course.

The following excuses are unacceptable;

- 1) I could not buy the course materials, so I could not do the assignments. Can you give me an extension? (Not Acceptable)
- 2) I had to go out-of-town, so I missed the exam. Can you please give me a make-up? (Not Acceptable)
- 3) I forgot we were having an exam today. Can you please re-schedule the exam for me? (Not Acceptable)
- 4) I'm using my friend's computer and he was using it, so I couldn't do that assignment. Can you please re-schedule the assignment for me? (Not Acceptable)
- 5) I missed several assignments; can you give me some extra-credit exercises? (Not Acceptable)
- 6) I have fallen behind in my assignments and was wondering if you can extend the due dates? (Not Acceptable)
- 7) I forgot to paid my ISP, so I lost my Internet connection for a week. Can I make-up the last two assignments? (Not Acceptable)
- 8) I forgot to take my laptop computer with me on my vacation. Can I make-up the last exam? (Not Acceptable)
- 9) I didn't know the assignment was due last week. Can I send you my assignment to your email account? (Not Acceptable)

By now you should see my point. These are the types of messages I have received from students in the past. Hopefully, you can see why these are not acceptable reasons as to why a student did not perform.

Please Note:

"Students with disabilities who believe they may need accommodations in this class are encouraged to contact Supportive Services (310) 287-4450, FACE 16, as soon as possible to better ensure such accommodations are implemented in a timely fashion."

Drop Policy

If you choose to drop a course, it is your responsibility to do so by the end of the second week of class if you wish to receive a tuition refund. For compressed eight week semesters, you must drop by the end of the first week to receive a tuition refund. You will not be automatically dropped from your class for lack of participation.

If you drop a class after the fourth week of the semester has passed, you will receive a "W" grade for that class. If you drop a class after the tenth week has passed, you will receive an "F" grade for that class. If you drop a class after the second week has passed in a compressed eight week semester, you will receive a "W" grade for that class. If you drop a class after the fifth week has passed in a compressed eight week semester, you will receive an "F" grade in that class.

Important Drop Dates for Fall 2013:

- Get a full refund: 9/6/13
- Last day to add a class:
 - Online: 8/25/13
 - In-person: 9/6/13
- File for "pass/no pass": 9/6/13
- Drop class without a "W": 9/6/13
- Drop class with a "W": 11/15/13

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@wlaac.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/!gateway/page/4243c7b4-9b68-45fc-0016-148ad08653aa
ETUDES FAQ:	http://www.wlac.edu/online/etudesfaq.asp
WLAC Homepage:	http://www.wlac.edu
WLAC Online Homepage:	http://www.wlac.edu/online
WLAC Online Counseling:	http://www.wlac.edu/online/counselingonline.asp
WLAC Online Tutoring:	http://www.wlac.edu/online/tutoring.asp
WLAC Library:	http://www.wlac.edu/library/index.html
WLAC Bookstore:	http://store450.collegestoreonline.com
Netiquette:	http://www.albion.com/netiquette/corerules.html
Strategies for Online Learners:	http://www.uidaho.edu/eo/dist8.html
Be a Successful Online Student:	http://www.ion.uillinois.edu/resources/tutorials/pedagogy/StudentProfile.asp
Tips for Online Success:	http://www.ion.uillinois.edu/resources/tutorials/pedagogy/tips.asp