Grading Policy for Networking Laboratory I

1. **Networking Laboratory I LEC 4 T R 6:00 7:50PM Kotfila Lally 102**

2. Instructor: Chris Price christian.price@corebts.com Office hours: By arrangement call cell number in email

Teaching Assistants:

cisco-ta-l@lists.rpi.edu

Learning Objectives

The purpose of this course is to be able to configure, verify, and troubleshoot complex computer networks at an **introductory** level.

At the successful completion of this class a student will be able to say:

I can **configure** network routers and switches so that both LAN and WAN traffic successfully traverses the network.

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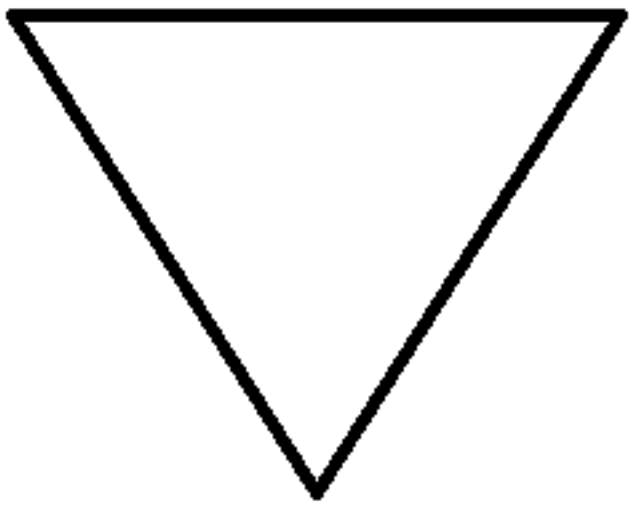
I can **verify** that a computer network has been properly configured.

I can **troubleshoot** network problems. I can successfully **implement** solutions.

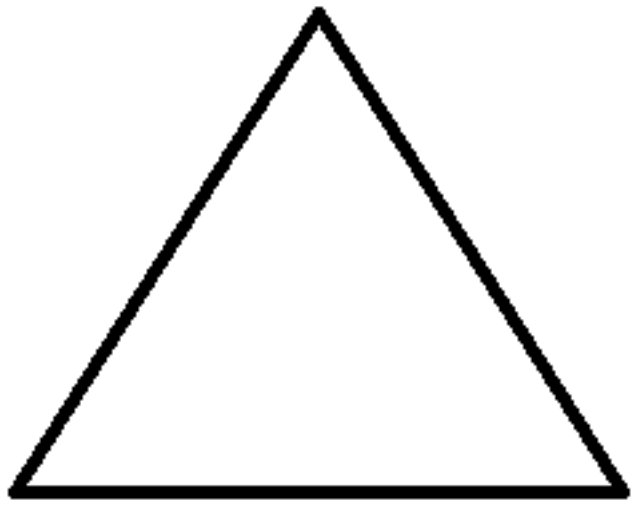
I can **explain** computer networking concepts to both technical peers and non-technical management.

I can **discern** true statements from false statements as pertains to computer networking as verified by passing industry standard examinations.

This course is about the networking equivalent of learning to drive a formula one race car. Reading will help, but you must do it.... over and over and over again!



Deductive Learning - One must understand theory first; then engage in practice.

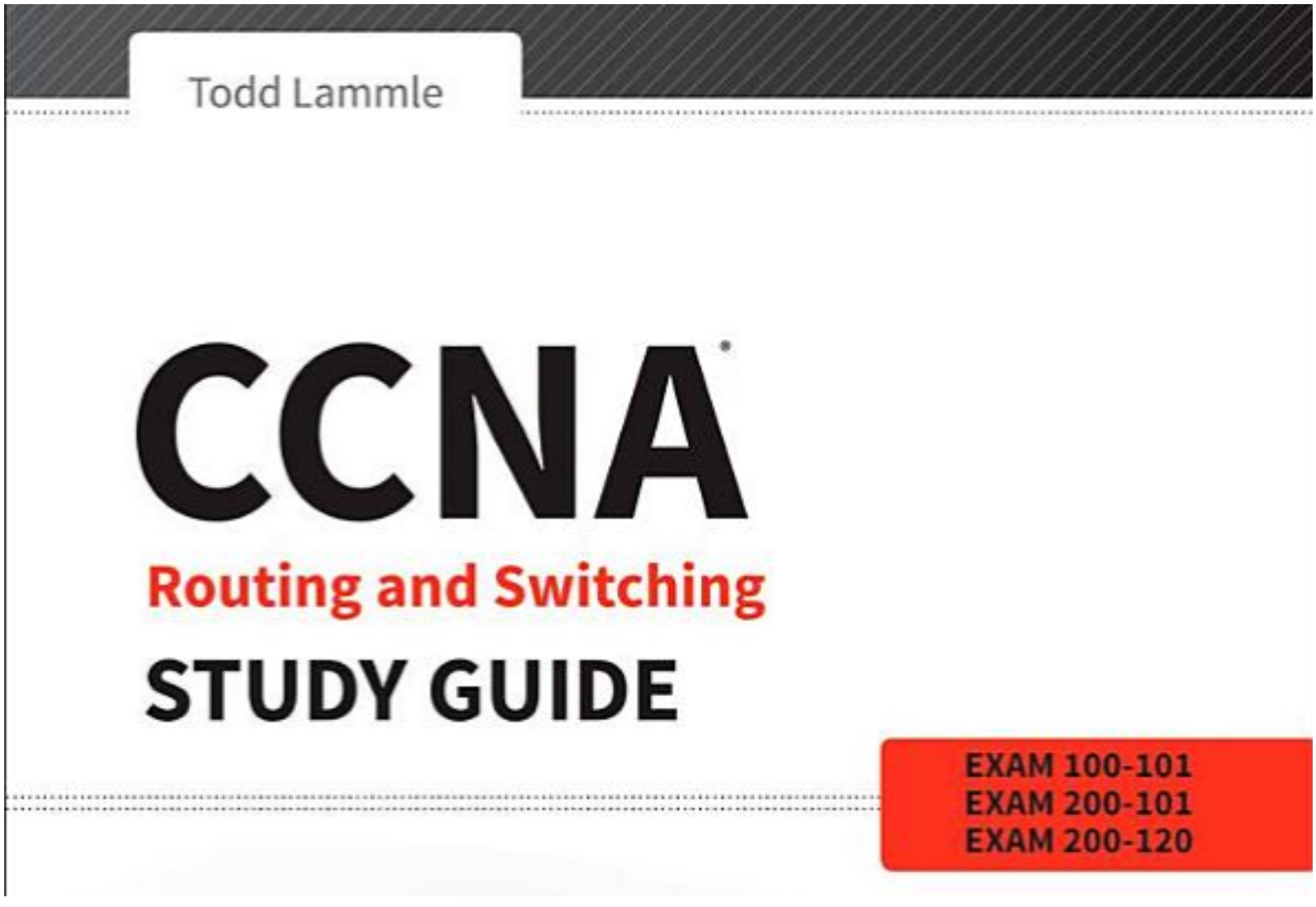


Inductive Learning - One engages in practice over and over and over again. It is through practice that one is able to understand the theory.

3. Required texts:

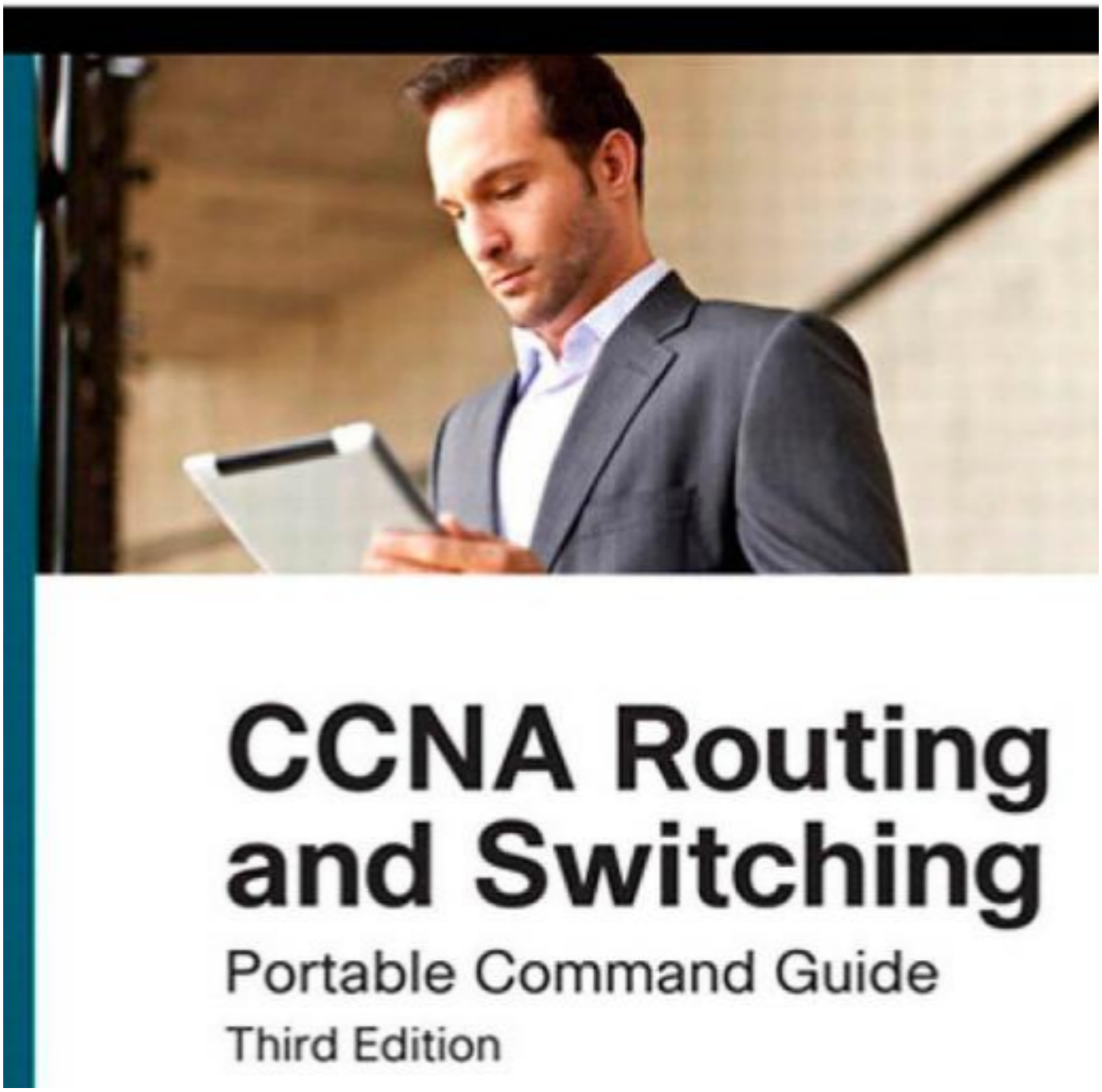
CCNA Routing and Switching Study Guide: Exams 100-101, 200-101, and 200-120

Todd Lammle ***REQUIRED***



CCNA Routing and Switching Portable Command Guide (3rd Edition)

Scott D. Empson ***REQUIRED***



4. Grading:

This is a LAB course. This is a DOING course. You will learn to think by DOING. The top priority is the ability to configure production networks.

There will be a hands-on 2 hour Midterm in Packet Tracer. Exam topics will include: VLANs, Inter-VLAN routing, static & default routing, OSPF routing, Access Lists, DHCP, NAT and IPv6.

There will be a hands-on 2 hour Final in Packet Tracer. Exam topics will include: EIGRP routing, multi-area OSPF, Spanning Tree Protocols, HDLC, PPP, Frame-Relay, HSRP and GLBP.

If you do not know a single thing about what I just said, then you are FINE :-) This course assumes that you know nothing about networks. You will learn what all of these things mean by actually creating networks that use them.

PLEASE BRING YOUR LAPTOP, WITH Packet Tracer INSTALLED, TO EACH CLASS. THERE WILL BE Packet Tracer EXERCISES IN EACH CLASS. If you have not already downloaded and installed Packet Tracer, then do so now.

The basic structure of the class is 4/4/4 - 4 hours of class, 4 hours of lab, 4 hours of homework per week. There is a lab associated with each class. Go to class on Tuesday. Take ONE of five possible labs. Go to class on Thursday. Take ONE of four possible labs. Class. Lab. Class. Lab. Simulated equipment. Live Equipment. Simulated equipment. Live equipment. **Labs start next Tuesday, September 8th at 8 pm. NO LABS THIS WEEK.**

Sign up for ONE of these five labs:

85566 CSCI-4970-04	COMPUTER NETWORK LAB	LAB	0	NG	T	8:00	9:50PM	Kotfila	EATON 215	16	3	13	View TextBooks
85567 CSCI-4970-05	COMPUTER NETWORK LAB	LAB	0	NG	W	2:00	3:50PM	Kotfila	SAGE 2707	16	2	14	View TextBooks
85568 CSCI-4970-06	COMPUTER NETWORK LAB	LAB	0	NG	W	4:00	5:50PM	Kotfila	LOW 4040	16	1	15	View TextBooks
85569 CSCI-4970-07	COMPUTER NETWORK LAB	LAB	0	NG	W	8:00	9:50PM	Kotfila	EATON 215	16	2	14	View TextBooks
85570 CSCI-4970-08	COMPUTER NETWORK LAB	LAB	0	NG	R	4:00	5:50PM	Kotfila	* TBA *	16	1	15	View TextBooks

and for ONE of these four labs:

85571 CSCI-4970-09	COMPUTER NETWORK LAB	LAB	0	NG	R	8:00	9:50PM	Kotfila	EATON 215	16	3	13	View TextBook
85563 CSCI-4970-01	COMPUTER NETWORK LAB	LAB	0	NG	M	4:00	5:50PM	Kotfila	EATON 215	16	1	15	View TextBooks
85564 CSCI-4970-02	COMPUTER NETWORK LAB	LAB	0	NG	M	8:00	9:50PM	Kotfila	EATON 215	16	4	12	View TextBooks
85565 CSCI-4970-03	COMPUTER NETWORK LAB	LAB	0	NG	T	4:00	5:50PM	Kotfila	* TBA *	16	3	13	View TextBooks

Mid-term and final exam = your grade.

However you can have your grade significantly reduced by not completing labs.

Labs - TAs will take attendance at each lab. Failure to successfully complete one lab - no penalty Failure to successfully complete two labs - lose 1/2 letter grade Failure to successfully complete three labs - lose one full letter grade (the highest grade you can get is a B). Failure to successfully complete four labs - lose two full letter grades. Failure to successfully complete 5 labs - automatically fail the course. The intent here is clear. This is a course in which you are expected to demonstrate your ability to configure and troubleshoot a real network.

Students must complete labs the week they are assigned to receive credit for the lab. Requests to make up ("cram") labs at the end of the semester will be denied. It is understandable that events occur in life which might necessitate missing a lab (example: illness, family birthday, etc.) For events that are known ahead of time (a family reunion), you must email the TAs **before** the missed lab. In the event of illness, email the TAs as soon as possible. You must make up the labs **within one week** of when you are healthy. CC: me on all of these emails. It helps me to do grading at the end of the semester if I have your email: david.kotfila@gmail.com

The first lab will be held after next Tuesday's class (September 8th, 8 pm), and then will follow the posted schedule on SIS. You must sign up for one lab session between the end of Tuesday class and the beginning of the Thursday class. You must sign up for one additional lab session between the end of the Thursday class, and the beginning of Tuesday class. It is the responsibility of students to make sure that the TA sees you in the lab and verifies that (1) you have successfully completed the lab, or (2)worked the entire 2 hours attempting to get the lab to work. Initially, you will be assigned a "pod" of routers. Your goal is to successfully configure these devices so that they are communicating with each other.

Alternative Grading Scheme - Those who want to be Cisco certified may substitute the CCENT (ICND1) exam for the mid-term, and the CCNA-Routing & Switching Exam for the final.

Instructor Track - Think you might be interested in teaching networking at the high school or community college level? I work with ~200 schools in

New England and New York. Every year there are 5-10 openings for instructors. Email me about your interest, and we can certify you as a Cisco Academy instructor.

Labs start Tuesday, September 8th at 8 pm

Incompletes - Only for medical reasons, or extended illness/death in the family. The fact that you do not have enough money to pay to retake an exam is not an acceptable reason.

Late work - will receive a minimum of one grade reduction and may, at the sole discretion of the instructor, not be accepted at all.

5. Labs - Scheduling - Use SIS sign up for 2 lab times each week.

6. Academic Integrity

Mid-term and Final exams will be vigorously monitored. Only Packet Tracer may be open on a student's computer. Searching the internet for answers using any electronic device to attempt to complete the exams will result in course failure. Cell phones and all other electronic devices must be turned off.

Labs must represent one's own work. However assistance from the TA is both permitted and encouraged.

7. Semester Reading Assignments