

CCRI Networking Technology I CSCO-1850-002 Spring 2010

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Office Hours Room [2182](#). Mon, Tue, Wed, & Thur 4:00 - 5:00 P.M.
Class Sections 002 (Tuesdays and Thursdays, 8-9:50 A.M., room 2060)

Instructional Material and Web Sites

1	CCRI Lesson Web Site Internal	10.19.114.9 Exploration 1 Ver. 4.0
2	CCRI Lesson Web Site External	216.19.115.212 Exploration 1 Ver. 4.0
3	Cisco Academy Assessment Web Site	http://cisco.netacad.net/

Grading Policies

Skills:

Journal-Entries	5%
Labs and Class Participation	10%
Case Study and Presentation	20%
Research Paper	10%
Practical Final	10%

Academic:

Quizzes	15%
Final	30%

Textbook: Optional

Network Fundamentals: CCNA Exploration Companion Guide.

By Mark Dye, Rick McDonald, Antoon Ruffi.
Published by Cisco Press.

ISBN-10: 1-58713-208-7

ISBN-13: 978-1-58713-208-7

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. Final exam must be taken on assigned date in assigned room only.

Networking Technology I Syllabus

Class	Lesson	Exam	Subjects	Labs
Week 1 Jan 26 & 28	1		Living in a Network-Centric World 1.1 Communicating in a Network-Centric World 1.2 Communication - An Essential Part of Our Lives 1.3 The Network as a Platform 1.4 The Architecture of the Internet 1.5 Trends in networking	Lab 1.6.1 Lab 165.2
Week 2 Feb 2 & 14	2	1	Communicating over the Network 2.1 The Platform for Communications 2.2 LANs, WANs, and Internetworks 2.3 Protocols 2.4 Using layered Models 2.5 Network Addressing	Lab 2.6.1 Lab 2.6.2
Week 3 Feb 9 & 11	3	2	Application Layer Functionality and Protocols 3.1 Applications - The Interface Between the Networks 3.2 Making Provisions for Applications and Services 3.3 Application layer Protocols and Services Examples	Lab 3.4.1, Lab 3.4.2 Lab 3.4.3
Week 4 Feb 16 & 18	4	3	OSI Transport Layer 4.1 Roles of the Transport layer 4.2 The TCP Protocol - Communicating with Reliability 4.3 Managing TCP Sessions 4.4 The UDP Protocol - Communicating with Low Overhead	Lab 4.5.1 Lab 4.5.2 Lab 4.5.3
Week 5 Feb 23 & 25	5	4	OSI Network Layer 5.1 IPv4 5.2 Networks - Dividing Hosts into Groups 5.3 Routing - How Our Data Packets are Handled 5.4 Routing Processes: How Routes are Learned	Lab 5.5.1 Lab 5.5.2 Case Study, Groups Formed
Week 6 Mar 2 & 4	6	5	Addressing the Network - Ipv4 6.1 IPv4 Addresses 6.2 Addresses for Different Purposes 6.3 Assigning Addresses	Lab 6.7.1 Lab 6.7.2
Week 7 Mar 9 & 11			6.4 Is It On My Network 6.5 Calculating Addresses 6.6 Testing the Network Layer	Lab 6.7.3 Lab 6.7.4, Lab 6.7.5
Week 8 Mar 16 & 18	7	6	Data Link Layer 7.1 Data Link layer - Accessing the Media 7.2 Media Access Control Techniques 7.3 Media Access Control Addressing and Framing Data 7.4 Putting it All Together	Lab 7.5.1, Lab 7.5.2
Mar 22 - 27	Spring Break		Spring Break	Spring Break
Week 9 Mar 30 & Apr 1	8	7	OSI Physical Layer 8.1 The Physical Layer - Communication Signals 8.2 Physical Signaling and Encoding: Representing Bits 8.3 Physical Media - Connecting Communication	Lab 8.4.1
Week 10 Apr 6 & 8	9	8	Ethernet 9.1 Overview of Ethernet 9.2 Ethernet - Communication through the LAN 9.3 The Ethernet Frame 9.4 Ethernet Media Access Control	Lab 9.8.1
Week 11 Apr 13 & 15			9.5 Ethernet Physical Layer 9.6 Hubs and Switches 9.7 Address Resolution Protocol (ARP)	Lab 9.8.2 Lab 9.8.3

Class	Lesson	Exam	Subjects	Labs
Week 12 Apr 20 & 22	10	9	Planning and cabling Networks 10.1 LANs - Making the Physical Connection 10.2 Device Interconnections 10.3 Developing an Addressing Scheme 10.4 Calculating the Subnets 10.5 Device Interconnections	Lab 10.6.1 Lab 10.6.2 Lab 10.6.3
Week 13 Apr 27 & 29	11	10 11	Configuring and Testing your Network 11.1 Configuring Cisco devices - IOS basics 11.2 Applying a Basic Configuration Using Cisco IOS 11.3 Verifying Connectivity 11.4 Monitoring and Documenting of Networks	Lab 11.5.1 Lab 11.5.2 Lab 11.5.3 Lab 11.5.4 lab 11.5.5 Lab 11.5.6
Week 14 May 4 & 6		F	Case Study Presentations, Practical Exam, Journals Due	
May 11			Final Exam, Journals Due	