



Business Information and Engineering Technologies

Welcome

Preston Ridge Cisco Networking Academy

Fall 2008 Syllabus

ITCC-1302-CCNA 1: Networking Fundamentals v4.0

ITCC-1306-CCNA 2: Routing Protocols and Concepts v4.0

ITCC-1342-CCNA 3: LAN Switching and Wireless v4.0

ITCC-1346.XB 7/XP7, CE-CCNA 4: Accessing WANs v4.0

MW 6:00 – 11:00 PM

PRC – Room: H-131

Instructor: Serena Butler

sbutler@ccc.edu

972-377-1040, VM Box#: 7817

PREREQUISITES

Prerequisite to: ITCC-1302 is no pre-req

ITCC-1306 is ITCC-1302

ITCC-1342 is ITCC-1306

ITCC-1346 is ITCC-1342

Corequisites: Not allowed

CCNA COURSE CATALOG DESCRIPTIONS**CCNA 1: Networking Fundamentals v4.0**

Networking Basics is the first of four courses leading to the Cisco Certified Network Associate (CCNA) Certification. CCNA 1 introduces Cisco Networking Academy Program Students to the networking field. The course focuses on networking Terminology and protocols, local area networks (LANs), wide-area networks (WANs), Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming (configuring), Ethernet, Internet Protocol (IP) addressing and network standards.

CCNA 2: Routing Protocols and Concepts v4.0

Routers and Routing Basics is the second of the four CCNA courses leading to the Cisco Certified Network Associate (CCNA) certification. CCNA 2 focuses on initial routing configuration, Cisco IOS Software management, routing protocol configuration TCP/IP, and access control lists (ACLs). Students will develop skills on how to configure a router, manage Cisco IOS software, configure routing protocols, and create access lists controlling access to the router.

CCNA 3: LAN Switching and Wireless v4.0

Switching Basics and Intermediate Routing is the third of four courses leading to the Cisco Certified Network Associate (CCNA) certification. The course focuses on advanced IP addressing techniques (Variable Length Subnet Masking (VLSM), intermediate routing protocols (RIP v2, single-area OSPF, EIGRP), command-line interface configuration of switches, Ethernet switching, Virtual LANs (VLANs), Spanning Tree Protocol (STP), and VLAN Trunking Protocol (VTP).

CCNA 4: Accessing WANs v4.0

WAN Technologies is the last of the four courses leading to the Cisco Certified Network Associate (CCNA) Certification. The course focuses on advanced IP addressing techniques (Network Address Translation (NAT), Port Address Translation (PAT), and DHCP, WAN technologies and terminology PPP, Frame Relay, network management and introduction of optical networking). In addition, the student will prepare for the CCNA Exam.

METHOD OF PRESENTATION

- Assignments, suggested schedules, and supplementary material to be distributed on the first class day.
- Class lectures (live and/or recorded) will cover and expand upon the assigned reading material.
- The computer lab is the setting for all face-to-face lectures and extensive hands-on experience.
- Online time activity includes Cisco curriculum, recorded presentations, and Packet Tracer Labs.

TEXTBOOK AND LAB MANUALS (optional):

CCNA Official Exam Certification Library (CCNA Exam 640-802), 3rd Edition, Wendell Odom, Cisco Press, 2008, ISBN-10: 1-58720-183-6; 1475 pages

Companion Guides – find at <http://www.ciscopress.com/bookstore/browse.asp?st=67671>

SUPPLIES

- memory stick or 1 CD-R
- paper notebook to maintain a “handwritten journal” (These notes can be used during the Skills-Based Assessment.)

COURSE REQUIREMENTS

IT IS THE RESPONSIBILITY FOR EACH STUDENT TO MANAGE HIS/HER TIME WITH RESPECT TO:

- reading assignments
- attending lecture
- completing all labs
- maintaining a class/lab journal (required for skills-based assessment)
- completing homework assignments
- completing chapter exams by the due date
- scheduling the skills-based exam
- preparing for the skills-based assessment and comprehensive online final exam
- completing the comprehensive online final exam and skills-based assessment as scheduled

LAB ASSIGNMENTS

Students are required to spend a specific amount of time in the Cisco laboratory. The lab assignments for each chapter are central in understanding the concepts and the implementation of the concepts in the Cisco curriculum. Each student is to provide his/her own paper copies of the labs. These can be downloaded and printed outside the Cisco lab or are available by purchasing a Cisco Lab Companion Guide.

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ASSESSMENTS (See GRADING section for details regarding 2nd Attempts)

Chapter exams will be administered for each chapter. Each chapter exam will be available online for approximately 2 weeks. Students may use notes, study aids or access curriculum for the chapter exams. The chapter exams are to be completed by the due date listed in the class calendar.

A **comprehensive online final exam**, proctored by an instructor, will be administered on campus during finals week. No notes, study aids, or access to curriculum is allowed.

A **skills-based assessment** (hands-on skills exam) must be successfully completed to pass the course and taken with an instructor present. The student must present his/her own handwritten class journal to take the skills-based assessment: **NO JOURNAL, NO SKILLS-BASED ASSESSMENT.**

COURSE REPEAT POLICY

You may repeat this course only once after receiving a grade, including W. If you drop the course before the census date, you will not be penalized with regard to the repeat policy. If you withdraw from the course after the census date, a grade of W will be posted to your transcript and this enrollment will count as one attempt toward the repeat policy.

COURSE REQUIREMENT DEADLINES

Credit will be given for **ONLY** those tests, exams, et al, completed on or before the scheduled deadlines as scheduled by your instructor. The instructor may provide direction either verbally or in writing via this syllabus, or in its supplements. No credit will be given for late delivery unless prior arrangement has been communicated with the instructor.

ATTENDANCE POLICY

Attendance is required to pass this course, see Class/Lab Attendance Accountability chart below. Assignments and materials regarding attendance procedures will be discussed on your first day of attendance. Contact the instructor directly or leave voicemail or email if absence involves a scheduled test, exam or skills test prior to time of a scheduled event.

IMPORTANT NOTE: Any student wishing to withdraw from the course must do so as outlined in the class schedule. **THE INSTRUCTOR CANNOT DROP OR WITHDRAW ANY STUDENT.**

Withdrawals and Refunds from Express Classes **VARY**. Check with the Cashier's Office for specific dates and refund amounts.

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ADA REQUIREMENT

It is the policy of Collin College to provide reasonable accommodations for qualified individuals who are students with disabilities. This college will adhere to all applicable Federal, State, and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to offer an equal educational opportunity. It is the student's responsibility to contact the faculty member and/or the Services for Students with Disabilities at (972)881-5950 to arrange for appropriate accommodations.

AMERICANS WITH DISABILITIES ACT COMPLIANCE

It is the policy of Collin College to provide reasonable and appropriate accommodations for individuals with documented disabilities. This college will adhere to all applicable Federal and State laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to contact the ACCESS Office (G-200) or 972-881-5898, (TDD – 972-881-5950) in a timely manner if he/she desires to arrange for accommodations.

GRADING

Component	CCNA1	CCNA2	CCNA3	CCNA4	Notes:
Online (Remote) Chapter Exams	10%	10%	10%	10%	
Online (In-class) Comprehensive Final Exam(s) (A score greater than 69 is required)	40%	40%	40%	40%	Only 2 attempts are allowed on the final. If a second attempt is needed, a grade greater than 74% is required. BUT your score will only reflect a 70. If the score of the second attempt is less than 75 a score of zero (0) will be assigned for the Online Final score.
Scheduled Skills-Based Assessment(s)	40%	40%	40%	40%	Must pass skills exam to advance to next Cisco course. Two attempts to pass – 1 st attempt 100% - 40 points 2 nd attempt 70% - 28 points Failure to show up without advanced and reasonable notice will result in a failed attempt. If a student fails to successfully complete the skills exam a score of zero (0) will be assigned.
Mid Term SBA	10%	10%	10%	10%	
Attendance	See respective Course, Class Time Accountability chart below.				

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TIME ACCOUNTABILITY (Recommended for Blended)

	Face-to-Face (FTF) Or Online (OL) Activities with Instructor	LAB	Personal Study Credit
	Live lectures [FTF or OL] Mid-Term Skills Skills-Based Assessment Comprehensive Final Exam	Cisco Lab @ PRC NetLab Packet Tracer Discussion	Reading/Reviewing Curriculum, Notes Updating Journal Chapter Exams Etc.
Course	# Hours Minimum	# Hours Minimum	# Hours Minimum
CCNA 1	40	20	20
CCNA 2	24	40	16
CCNA 3	24	40	16
CCNA 4	24	40	16

LOGIN PROCEDURES

URL	UserID	Password	Purpose
http://et-networking.ccccd.edu	Engineering	Given in class	Access CCNA curriculum on local server
http://cisco.netacad.net	Your userID (for all Cisco Academy Courses)	Your password	Chapter Exams Online Final Exam Alternate curriculum
http://collin.wimba.com	Your userID	Your password	Online Lectures

A large number of PowerPoints are provided at:

- <http://iws.ccccd.edu/pbrierley/> --click on: Cisco Program
- <http://iws2.ccccd.edu/jperrine> --click on: Cisco Program Resources
- <http://iws.ccccd.edu/ccrisson>

LAB USAGE

Rooms H-130, H-131, and H-150

CCCCD students who are registered for a Cisco class are eligible to use these labs. Each lab has three or four racks of routers and switches. Caution must be exercised when using this equipment and a “tear-down” procedure must be followed when you are finished using the computers, routers, switches. The tear-down procedure consists of setting the equipment back to a “base-line”. Base-line means that a router, switch or workstation must be cleared of any configurations you have placed in it. Cables will be removed and placed in appropriate storage locations (see instructor if uncertain). This will make the room and equipment ready with a standard “base-line” view for the next student to use. See Room Exit Protocol (REP) protocol posted on wall. Your having to recover from an unknown password will require about 20 minutes time to execute the Password Recovery Protocol (PRC) so avoid using non standard passwords, see next paragraph.

When connecting serial cables to the routers, the DB-60’s pins must be carefully matched. If the connector is forced in upside down then the serial port will become unusable.

Only two passwords are acceptable – “cisco” and “class”(each must be lower case).

Login password = “cisco”

Secret password = “class”.

Posted on the wall are three important protocols you must understand and comply:

- Classroom “Base-line” Protocol – Room Exit Protocol (REP)
- Cell Phone Protocol – Cell Phone Protocol (CCPP)
- Password Recovery – Password Recovery Protocol (PRP)

Cisco Lab phone number: H-130 -972-377-1519