CIS151 Course Syllabus

CIS 151: Introduction to Networks: Fall 2020

4 Credits, Grading: A-F, 28 Sep - 09 Dec Fall Term Dates

CRN: 21153 Section 2 Time: MW 12:30-3:50 PM

How to contact me:

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Course Objectives:

*The first course of a three-part sequence in a **Cisco Networking Academy®** curriculum directed toward the **Cisco Certified Network Associate® (CCNA)** certification. CIS151 is also useful to all computer professionals as a single-term introduction to basic networking essentials. The course provides students with an experience in current networking technology, and includes networking terminology, protocols, network standards, LANs, WANs, configuring hardware devices and software, OSI model, cabling, cabling tools, safety, network topology, and IP addressing.* CIS151 is the first Networking course in LBCC's *Network and Systems Administration* Associate of Applied Science degree program, and in LBCC's *Certificate in Basic Networking* program.

Co-requisites:

1. ***CIS 125** (Introduction to Software Applications),*
   or
   *equivalent computer experience **AND permission of the instructor after interview.***
2. ***MTH 75** (Elementary Algebra)*
   or
   ***permission of the instructor after interview**.*

The CCNA Program at LBCC:

- Fall term: CIS151 (4 units)
- Winter term: CIS152 (4 units)
- Spring term: CIS153 (4 units)

Students who satisfactorily complete the Fall-Winter-Spring-Fall course sequence of CIS 151, 152, 153 are eligible to receive LBCC's *Certificate in Basic Networking*.

Textbook optional(reference only): The following book is handy for CIS151, 152, 153. It should be available the LBCC bookstore:

- ***CCNA Routing and Switching Portable Command Guide, 4th edition***
- *by Scott Empson*

- *published by Cisco Press, 2016*
- *ISBN978-1-58720-588-0*

- ***Note that all curriculum materials, including lab instructions, are available on line via your Cisco Networking Academy login.***

Internet:

We will use the Internet ***extensively primarily to access the curriculum/labs and assessments*** along with research for background and other sources of information.

Assignments:

On-line Cisco Networking Academy Curriculum: At the core of this class is the Cisco on-line curriculum. Each student will have his/her own account on the Cisco Networking Academy Server which will allow each of you to access the course via any internet connected computer at: **http://cisco.netacad.net (Links to an external site.)**

Lab Work:

Lab/*Packet Tracer (simulator)* exercises will be done and submitted via the internet. The results of your lab work will be recorded on pages from the On-Line curriculum which you will upload and submit via the internet – more details on the lab submission process will be discussed during our first day of class Zoom meeting.

Module Exams:

Module exams will be accessed via the Internet from the Cisco Networking Academy Website. You will take all your CIS151 Module Exams on your own time. Of course there can't be any restrictions on "open book" etc. with that arrangement. You'll be able to take each test up to 3 times. You should be able to see all available "feedback" on the questions that are answered incorrectly. The NetAcad database **wil**l **record your last score**, **NOT YOUR HIGHEST SCORE**, so of course try to improve! The module exams are designed and implemented in this course to use as a learning tool as well as an assessment in preparation for the Comprehensive Final Exam – both the PT Lab and the online Final Module exam..

Important Note: "Log in early and often!" YOU are responsible for getting ahold of a reliable Internet connection to the NetAcad assessment server, etc. If you're in any doubt, take the exams from on-campus at LBCC!! Since the exams will each be enabled for several days, and you will have the opportunity to take each exam several times, I can't promise that there will be any retakes of any exam after its enabled period ("My dog ate my modem..." etc.).

Skills-Based Assessment:

The Skills-Based Assessment is an important part of the Academy assessment program. The standards of the Cisco Networking Academy are such that a passing score on the Skills-Based Assessment (to be announced, typically 70%) must be obtained in order to pass the Academy Course and be approved for advancement).

Final Exam:

You are required to pass the final exam in order to pass the course and be approved for advancement to the next term of the CCNA curriculum – CIS 152. If you do not pass the final exam on your first attempt, you will be permitted to take it again a day or two later. However, in that case the highest possible grade that you will receive in the class will be a C regardless of your total percentage level.

The following scale (tentative) will be used to determine your grade in this course:

Assessment Scale:
Lab Work = 30%
Module Exams = 30%
Final Skills-Based Assessment = 20%
Final Exam = 20%
Grading Scale:
A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%

Class attendance:
Your attendance is expected to be sufficient in time and in quality to complete all the assigned work and learn all assigned material thoroughly. Class attendance on each W of each week during the term is expected and mandatory via Zoom. The exception are previously arranged excused absences with instructor approval and holidays.
If you have any questions about required attendance, ask the instructor!

Online Discussion:
Their purpose is to facilitate contact among students and act as substitute for student classroom engagement. If you see a question posted by another student, feel free to contribute constructively to the discussion.

Academic Honesty Policy:
All students are encouraged to discuss assignments and course materials in general terms with other students. If you need help with the exercises, you are encouraged to ask the instructor. Please note, however, that each student is expected to work independently on all assignments. The work you turn in to be graded must be *your own* work. Representing another person's work as your own constitutes academic fraud and has no place at LBCC. No credit will be given for assignments which, in the instructor's judgement, were not created by the student submitting them.

Skills required for success in this course:

1. **Time management: The ability to plan ahead, start assignments early, ask for needed help early, and submit assignments according to specifications and on time.**
2. **Patience: The ability to look calmly at a problem, analyze how to solve it, and concentrate on its solution.**

3. **Skill in analytical and logical problem-solving: A genuine liking for solving puzzles, and satisfaction in having done your best work to produce a solution.**
4. **A sense of humor: Working with computers humbles a person every day. Learn not to take it personally!**

Request for Special Needs or Accommodations:
Direct questions about or requests for special needs or accommodations to the LBCC Disability Coordinator, RCH-105, 6500 Pacific Blvd. SW, Albany, Oregon 97321, Phone 541-917-4789 or via Oregon Telecommunications Relay TTD at 1-800-735-2900 or 1-800-735-1232. Make sign language interpreting or real-time transcribing requests 2-4 weeks in advance. Make all other requests at least 72 hours prior to the event. LBCC will make every effort to honor requests. LBCC is an equal opportunity educator and employer.

LBCC Comprehensive Statement of Nondiscrimination:
LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our Board Policies and Administrative Rules. Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425. To report: linnbenton-advocate.symplicity.com/public report.

Course Schedule (Tentative):

Date	Details	Notes
Week1 - 28 Sept 30 Sept Class Meeting	Orientation/Intro to Course and Cisco Curriculum Website/Packet Tracer **Begin Modules 1 - 3: Basic Network Connectivity** **Lab1 – PT 1.5.7; 2.3.7; 2.5.5; 2.7.6; 2.9.1**	12:30-3:50 PM
Week2 - 5 Oct 7 Oct Class Meeting	Modules 1 - 3: Basic Network Connectivity Modules 1 - 3: Basic Network Connectivity Exam ***Activated (7-14 Oct 11:55pm)***	**Lab1 Due 11 Oct 11:55pm** 12:30-3:50 PM
Week3 - 12 Oct 14 Oct Class Meeting	**Begin Modules 4 - 7: Ethernet Concepts** **Lab2 – PT 4.6.5; 4.7.1**	12:30-3:50 PM
Week4 - 19 Oct 21 Oct Class Meeting	**Modules 4 - 7: Ethernet Concepts** **Begin Modules 8 - 10: Communicating Between Networks** **Modules 4 - 7: Ethernet Concepts Exam *Activated (21-28 Oct 11:55pm)*** **Lab3 – PT 10.1.4; 10.3.4; 10.3.5; 10.4.3**	**Lab2 Due 25 Oct 11:55pm** 12:30-3:50 PM
Week5 - 26 Oct 28 Oct Class Meeting	**Modules 8 - 10: Communicating Between Networks** **Modules 8 - 10: Communicating Between Networks Exam *Activated (28 Oct-4 Nov 11:55pm)***	**Lab3 Due 1 Nov 11:55pm** 12:30-3:50 PM

Date	Details	Notes
Week6 - 2 Nov 4 Nov Class Meeting	**Begin Modules 11 - 13: IP Addressing** **Lab4 – PT 11.5.5; 11.7.5; 11.9.3; 12.6.6; 13.2.6**	12:30-3:50 PM
Week7 - 9 Nov 11 Nov Class Meeting	Modules 11 - 13: IP Addressing **Begin Modules 14 - 15: Network Application Communications** *Modules 11 - 13: IP Addressing Exam* ***Activated (11-18 Nov 11:55pm)*** **Lab5 – PT 16.4.6; 17.5.9**	**Lab4 Due** **8 Nov 11:55pm** 12:30-3:50 PM
Week8 - 16 Nov 18 Nov Class Meeting	**Begin Modules 16 - 17: Building and Securing a Small Network** *Modules 14 - 15: Network Application Communications Exam* ***Activated (18-30 Nov 11:55pm)*** ***Modules 16 - 17 Building and Securing a Small Network Exam Activated (18-30 Nov 11:55pm)***	12:30-3:50 PM
Week9 - 23 Nov 25 Nov Class Meeting	**Modules 16 - 17: Building and Securing a Small Network**	**Lab5 Due** **22 Nov 11:55pm**
Week10 – 30 Nov 2 Dec Class Meeting	Final Exam Prep	12:30-3:50 PM

Date	Details	Notes
Finals Week 7-9 Dec	Finals – 07 Dec Monday	1-2:50 PM