Course Syllabus

**CIS 152: Routing & Switching Essentials: Winter 2020**

**4 Credits, Grading: A-F,  6 Jan - 20 Mar, Networking Lab MKH-105**

**CRN: 31856  Time: M/W 12:30-3:50**

**Cisco Networking Academy:  
CCNA R&S: Routing and Switching Essentials, Version 6.00**

Instructor: David Becker

**How to contact me:**

1. mailto: **david.becker@linnbenton.edu**
2. Office: MKH-105D
3. Office phone: 541- 917-4274
4. Office Hours: M 1200-1230, Tu 300-330, Th 1000-1030, Wed/Fri By Appointment

**Please Note: It is best if you setup an appointment to meet  via email so that the time slot can be reserved for you.  I will respond confirming the meeting within 12 hours (usually much sooner) to ensure that we have a dedicated time together.**

**Course Objectives** *The second course of a four-part sequence in a Cisco curriculum directed toward the Cisco Certified Network Associate (CCNA) certification. Emphasizes experience in current networking technology, and includes network terminology and protocols. Topics include LANs, network topology, IP addressing, routers, router programming, and application of routing and router protocols.***CIS152 is the second Networking course in LBCC's *Network and Systems Administration* Associate of Applied Science degree program, and in LBCC's *Certificate in Basic Networking* program.**

**Prerequisite:**  
CIS 151 Introduction to Networking, with a minimum "C" grade  
and with a "Pass" recorded in the Cisco Networking Academy® global database.

**The CCNA Program at LBCC:**  
Fall term: CIS151 (4 credits)  
Winter term: CIS152 (4 credits)  
Spring term: CIS153 (4 credits)  
Fall term second year: CIS154 (4 credits)

**Textbook suggested: The following book should be available the LBCC bookstore:**

* ***CCNA Routing and Switching Portable Command Guide, 4th Edition***
* By Scott Empson
* Published by Cisco Press
* ISBN 978-1-58720-588-0

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

**Internet:**

We will use the Internet ***extensively*** to search out background information and to answer our questions. Students are expected to be experts at digging information from the 'Net, and there will be plenty of opportunities to practice this skill.

**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.)**](http://cisco.netacad.net/)

**Labs:**

**Lab exercises and *Packet Tracer*exercises will be assigned on the NetSpace Website**. Lab exercises must be done in class during lab time. Per the schedule there will be designated **Open Lab Days that will be Dedicated (no lecture)** to hands on use of the equipment in MKH 105.  *Packet Tracer* simulation exercises can be done either in class during lab time or, preferably, outside of class. The results of your lab work will be recorded on pages from the On-Line curriculum which you print out. The work is to be turned in by the date specified in the Assignment on the NetSpace course calendar. *Packet Tracer* exercises and other exercises in electronic format will be uploaded to the appropriate Assignment on the NetSpace website. As repeatedly pointed out in the Cisco curriculum: Simulators such as *Packet Tracer* aren't in any way a substitute for our hands-on work with real networking hardware - but they can be a useful part of your learning toolkit.

**Exams:**

Written Chapter Quizzes/Exams will be accessed via the Internet from the Cisco Networking Academy "Netspace" Website.  You'll be able to take each Chapter Quiz several times (up to 10 times). You should be able to see all available "feedback" on the questions. You'll be able to take each Chapter Exam 2 times. The NetAcad database **will Record your Last Score,** **Not your highest score for Each exam**.  Your lowest Chapter Exam Score will be dropped in the final calculation of your grade - see Assessment Scale below.  All tests will be enabled after class on the day we discuss the material in class, and will remain enabled until 0900 the following Monday, unless we have a Monday holiday in which case they will remain enabled until 0900 the following Wednesday.

***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 an opportuntiy for retakes of any exam after its enabled period.***

***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 (70%) must be obtained in order to pass the Academy Course and be approved for advancement to the next term of the CCNA curriculum (at LBCC: course CIS153, to be offered Spring 2020).***  
  
**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 153.*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 will be used to determine your grade in this course:

|  |
| --- |
| **Assessment Scale:**  **Labs = 50%**  **Chapter Exams = 15%**  **Skills-Based Assessment = 10%**  **Final Exam = 25%**  **Total = 100%**  **Grading Scale:**  **A = 90-100%**  **B = 80-89%**  **C = 70-79%** |

**Academic Honesty:**

Helping, or being helped by, another student during an exam will be considered a breach of academic honesty and is grounds for receiving a zero grade and/or failing the course among other possible remedies.

**Course and Classroom Conduct:**

* Please silence cell phones and do not use during class.
* Please respect the learning environment of others and keep distractions to a minimum.
* **Time management**: The ability to plan ahead, start assignments early, ask for needed help early, and submit assignments according to specifications and on time.
* **Patience**: The ability to look calmly at a problem, analyze how to solve it, and concentrate on its solution.
* **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.
* **A sense of humor**: Working with computers humbles a person every day. Learn not to take it personally!

**LBCC Center for Accessibility Resources:**

Students who may need accommodations due to documented disabilities, or who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you believe you may need accommodations, but are not yet registered with CFAR, please go to [http://linnbenton.edu/cfar (Links to an external site.)](http://linnbenton.edu/cfar) for steps on how to apply for services or call 541-917-4789.

**LBCC Comprehensive Statement of Nondiscrimination:**

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.

**LBCC Statement of Inclusion:**

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill (related to Board Policy #1015).

**Basic Needs Statement:**

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Roadrunner Resource Center for support ([resources@linnbenton.edu](mailto:resources@linnbenton.edu) , or visit us on the web [www.linnbenton.edu/RRC (Links to an external site.)](http://www.linnbenton.edu/RRC)  under Student Support for Current Students). Our office can help students get connected to resources to help. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.

Course Summary:

| **Date** | **Details** |
| --- | --- |
| Mon Jan 13, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | Chapter 1 | 12:30pm | |
| Wed Jan 15, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Class](https://1389886.netacad.com/calendar?event_id=248081&include_contexts=course_948478) | 12:30pm | |
| Mon Jan 20, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [No Class - MLK Day](https://1389886.netacad.com/calendar?event_id=246856&include_contexts=course_948478) | 12am | |
| Wed Jan 22, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [OPEN LAB](https://1389886.netacad.com/calendar?event_id=246848&include_contexts=course_948478) | 12:30pm to 3:50pm | | Assignment | [Chapter-1 labs](https://1389886.netacad.com/courses/948478/assignments/18150086) | due by 4pm | | Assignment | [Chapter-2 labs](https://1389886.netacad.com/courses/948478/assignments/18150087) | due by 4pm | |
| Fri Jan 24, 2020 | |  |  |  | | --- | --- | --- | | Assignment | [CHAPTER 1 and 2 Exams Due](https://1389886.netacad.com/courses/948478/assignments/18362206) | due by 11:59pm | |
| Mon Jan 27, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 3 | 12:30pm | |
| Wed Jan 29, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 3 | 12:30pm | | Assignment | [Chapter-3 labs](https://1389886.netacad.com/courses/948478/assignments/18150088) | due by 4pm | |
| Mon Feb 3, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 4 | 12:30pm | |
| Wed Feb 5, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 5, 6 | 12:30pm to 3:50pm | | Assignment | [Chapter-5 labs](https://1389886.netacad.com/courses/948478/assignments/18150089) | due by 4pm | | Assignment | [Chapter-6 labs](https://1389886.netacad.com/courses/948478/assignments/18150090) | due by 4pm | |
| Mon Feb 10, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 7 | 12:30pm | |
| Wed Feb 12, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 8 | 12:30pm | | Assignment | [Chapter-7 labs](https://1389886.netacad.com/courses/948478/assignments/18150091) | due by 4pm | |
| Mon Feb 17, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [No Class - Pres Day](https://1389886.netacad.com/calendar?event_id=246842&include_contexts=course_948478) | 12am | |
| Wed Feb 19, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 9 | 12:30pm | | Assignment | [Chapter-8 labs](https://1389886.netacad.com/courses/948478/assignments/18150092) | due by 4pm | |
| Mon Feb 24, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 9 | 12:30pm | |
| Wed Feb 26, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [Chapter](https://1389886.netacad.com/calendar?event_id=248084&include_contexts=course_948478) 10 | 12:30pm | | Assignment | [Chapter-10 labs](https://1389886.netacad.com/courses/948478/assignments/18150085) | due by 4pm | |
| Mon Mar 2, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [OPEN LAB](https://1389886.netacad.com/calendar?event_id=246861&include_contexts=course_948478) | 12:30pm to 3:50pm | |
| Wed Mar 4, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [OPEN LAB](https://1389886.netacad.com/calendar?event_id=246862&include_contexts=course_948478) | 12:30pm to 3:50pm | | Assignment | [Chapter-9 labs](https://1389886.netacad.com/courses/948478/assignments/18150093) | due by 4pm | |
| Mon Mar 9, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [REVIEW](https://1389886.netacad.com/calendar?event_id=248092&include_contexts=course_948478) | 12:30pm | |
| Wed Mar 11, 2020 | |  |  |  | | --- | --- | --- | | Calendar Event | [HANDS ON CAPSTONE](https://1389886.netacad.com/calendar?event_id=248093&include_contexts=course_948478) | 12:30pm | |