CIS 224 Networking I

DATE: August 2017

INSTRUCTOR: Heidi Schneider

E-MAIL ADDRESS: heidim.schneider@lrsc.edu

PHONE: 662-1580

OFFICE HOURS: MWF (8:30-10am, 2-3:30pm)
TR (8:30-9:30am, 11am-12:30)

OFFICE #: Room 121

COMMON COURSE NUMBER: CIS 224

COURSE NAME: Networking I

ROOM #: Room 124

CLASS #: 14549

SEMESTER: Fall 2017

CREDIT HOURS: 3

CLASS HOURS: MWF 11:00-11:50

LAB HOURS: During class time

PREREQUISITES: None

CATALOG DESCRIPTION: Students gain a higher level of network management skills and strategies necessary to administer a local area network. Students will learn how to install a network operating system, perform appropriate procedures to prevent and recover from problems, how to analyze and improve network performance, multiple protocol support, advantages and considerations for using various utilities and functions, and advanced printing capabilities. Students will also be exposed to other network operating systems.

MATERIALS OF INSTRUCTION: Textbook: Tamara Dean, **Network+ Guide to Networks, 7th Edition**. Cengage Learning, ISBN 13: 978-1-30509094-1. Software: LabSim for Testout Network Pro N10-005 ISBN: 978-1-935080-43-5.

COURSE OBJECTIVES: This course first introduces the fundamental building blocks that form a modern network, such as protocols, topologies, and hardware. It then provides in-depth coverage of some of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, and remote connectivity. The course will help prepare you to select the best network design and hardware for your environment. After completing this course and CIS 243 Networking II, you will be well prepared to pass CompTIA's (the Computing Technology Industry Association's) Network+ certification exam.

GENERAL EDUCATION OBJECTIVES:
I. 3. To apply knowledge gained in the educational process and use that knowledge in everyday living - *apply knowledge to the real world*
II. 3. To use information objectively for solving problems and arriving at alternative solutions – *problem solving skills.*
VI. 3. To apply current technologies to access and utilization of information - *application of technology*
VII. 1. To develop a pattern of intellectual curiosity and inquiry which promotes life-long learning - *value of life-long learning*

MAJOR UNITS:
Chapter 1: An Introduction to Networking
Chapter 2: How Computers Find Each Other on Networks
Chapter 3: How Data is Transported Over Networks
Chapter 4: Structured Cabling and Networking Elements
Chapter 5: Network Cabling
Chapter 6: Wireless Networking
Chapter 7: Cloud Computing and Remote Access

GRADING:	A	90-100%
	B	80-89%
	C	70-79%
	D	60-69%
	F	BELOW 60%

Scholastic Dishonesty: Academic Integrity is intellectual honesty, responsibility, and ethical behavior in scholastic conduct from use of information to actions in a classroom. It is the guide for the "pursuit of knowledge and understanding within a community of inquiry" (American University). *Refer to Section 800.30 Student Conduct.*

STUDENT OUTCOMES/COMPETENCIES: Upon successful completion of this course, the student will have obtained knowledge of network operating system basics, network operating system components, network design and topology, media types and effectiveness, internet connection, network services including remote access and directory services, NIC and IP address configuration, and network operating system installation.

ASSESSMENT TOOLS (subject to change at the discretion of the instructor):

Projects / Labs @ 15-30 pts each
Worksheets @ 5-15 pts each
Quizzes/Misc. Assignments @ 10-30 pts each
Exams @ 40-50 pts each
Final Exam @ 100 pts

ATTENDANCE: Students will be required to attend each class and stay for the duration. Please be courteous and be **ON TIME** for class. If the student is absent from class, that student is responsible for letting the instructor know that they will not be attending class and need to complete the assignments that were assigned while they were gone. **If the student is absent for more than 6 class periods, they will be withdrawn from class (this is not consecutive absences).**

ASSIGNMENTS: Assignments are **DUE** on the date that is listed on e-Companion, unless changed by the instructor. I will not accept any assignment after the due date. **Any work handed in after the DUE DATE (one week late) is subject to 5pts off per assignment. Assignments will not be accepted if more than one week late.**

TESTS: Exams and quizzes may not be made up without advance approval from the instructor.

CELL PHONE USAGE: You may have your cell phone in class, but you MUST turn it to vibrate. If you need to answer a call, please leave the room quietly to answer. ALL cell phones MUST be turned OFF during a test.

LISTENING DEVICES: **NO** listening devices (iPods, MP3 players, headphones, etc.) will be allowed in my classes while class is in session.

DIVISION MISSION STATEMENT:
The Career and Technical Education Division offers various specialized programs. The division frequently assesses industry trends and standards and alters curricula to ensure the quality of its programs. It is the mission of the Trade and Technical Division to provide students with current knowledge and training necessary for immediate entry into various specialties within the job market.