



## CIS 220 Operating System: Unix

DATE: January 2020

ROOM #: 128

INSTRUCTORS: Heidi Schneider

CLASS #: 17501

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

SEMESTER: Spring 2020 (1<sup>st</sup> 8 weeks)

PHONE: 701-662-1580

CREDIT HOURS: 3

OFFICE HOURS: MWF 9am-10am and 2pm-3pm;  
TR 10:30am-11am and 1pm-2:30pm

CLASS HOURS: TR 8:00am – 9:20am

LAB HOURS: During class time

OFFICE #: Room 121

PREREQUISITES: None

COMMON COURSE NUMBER: CIS 220

*LRSC Online Campus – Blackboard*

COURSE NAME: Operating Systems: Unix

CATALOG DESCRIPTION: Introduction to the UNIX operating system from a user perspective. History of UNIX, command syntax, environment configuration, graphical user interface, file management, and basic scripting covered.

MATERIALS OF INSTRUCTION: Netacad Website NDG Linux Essentials.

COURSE OBJECTIVES: The main goal of this course is to provide students with a comprehensive overview of the UNIX operating system while working with the PC-friendly Linux operating system. By the end of the course, students will not only be familiar with the UNIX command-line environment, utilities, and applications, but also with the graphical X Window environment.

### 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	Introduction to Linux
	Chapter 2	Operating Systems
	Chapter 3	Working in Linux
	Chapter 4	Open Source Software and Licensing
	Chapter 5	Command Line Skills

Chapter 6	Getting Help
Chapter 7	Navigating the Filesystem
Chapter 8	Managing Files and Directories
Chapter 9	Archiving and Compression
Chapter 10	Working with Text
Chapter 11	Basic Scripting
Chapter 12	Understanding Computer Hardware
Chapter 13	Where Data is Stored
Chapter 14	Network Configuration
Chapter 15	System and User Security
Chapter 16	Creating Users and Groups
Chapter 17	Ownership and Permissions
Chapter 18	Special Directories and Files

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:

1. Describe the concepts and terminology relating to the Linux operating system.
2. Summarize features of Linux file systems and command syntax.
3. Select and apply Linux commands to navigate the directory structure and manipulate files and directories.
4. Understand and use editors.
5. Understand and use security features and directory permissions.
5. Understand and use commands to maintain a working system.
6. Describe the purpose and function of scripting.

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

Labs @ 10-50 pts each  
 Chapter Exams @ 20-40 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 2 class periods, they will be withdrawn from class (this is not consecutive absences).**

**ASSIGNMENTS:** Assignments are due on the date that is listed on Blackboard, unless changed by the instructor. I will accept assignments up to one week late for ½ points. Any assignments submitted over one week late will not be accepted.

**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.