CIS 220 Operating System: Unix

DATE: January 2020
INSTRUCTORS: Heidi Schneider
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PHONE: 701-662-1580
OFFICE HOURS: MWF 9am-10am and 2pm-3pm; TR 10:30am-11am and 1pm-2:30pm
OFFICE #: Room 121
COMMON COURSE NUMBER: CIS 220
COURSE NAME: Operating Systems: Unix
ROOM #: 128
CLASS #: 17501
SEMESTER: Spring 2020 (1st 8 weeks)
CREDIT HOURS: 3
CLASS HOURS: TR 8:00am – 9:20am
LAB HOURS: During class time
PREREQUISITES: None
LRSC Online Campus – Blackboard

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 Date 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.  
6.  Understand and use commands to maintain a working system.  
7.  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.