North Central State College

MASTER SYLLABUS
2019-2020

A. Academic Division: Business, Industry, and Technology

B. Discipline: Information Technology - Networking

C. Course Number and Title: ITEC1650 – Linux Fundamentals (Linux+)

D. Course Coordinator: Mohamed Ghonimy
Assistant Dean: Toni Johnson, PhD

Instructor Information:

- Name: Click here to enter text.
- Office Location: Click here to enter text.
- Office Hours: Click here to enter text.
- Phone Number: Click here to enter text.
- E-Mail Address Click here to enter text.

E. Credit Hours: 3
Lecture: 2 hours
Laboratory: 2 hours

F. Prerequisites: None

G. Syllabus Effective Date: Fall, 2019

H. Textbook(s) Title:

Provided - CISCO Academy

I. Workbook(s) and/or Lab Manual: None

J. Course Description: This course presents an overview of Linux operating systems and an introduction to data communication concepts in Linux environments. Architecture, package management, and GNU/Unix commands are discussed. Basic Linux shell and scripting tools are demonstrated. Students learn how to install and administer essential Linux system and networking services. This course prepares students for CompTIA's Linux+ certification.

K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Describe Linux system architecture.	Weeks 1-2 tests, labs, midterm/final exam, final project
2. Demonstrate Linux installation and package management.	Weeks 1-4, 15 tests, labs, midterm/final exam, final project
3. Demonstrate GNU and Unix commands for a given set of conditions.	Weeks 5-6 tests, labs, midterm/final exam, final project
4. Describe the Linux file structure and file system hierarchy.	Weeks 4,10,13-14 tests, labs, midterm/final exam, final project
5. Demonstrate appropriate use of shells and scripting tools for a given set of conditions.	Weeks 2,5-9 tests, labs, final exam, final project
6. Modify user interfaces and desktops.	Weeks 5-12 tests, labs, final exam, final project
7. Install and configure essential system and networking services.	Weeks 10-15 tests, labs, final exam, final project
8. Apply appropriate security measures for a given set of conditions.	Weeks 10-16 tests, labs, final exam, final project

M. Topical Timeline (Subject to Change):

Week 1: Introduction and Using Linux
Week 2: Text Utilities and Configuring the Shell
Week 3: Boot and Shutdown
Week 4: File Management, Manipulation and Globbing
Week 5: vi Editor
Week 6: Standard Text Streams and Redirection
Week 7: Managing Processes
Week 9: Archive Commands
Week 10: File Permissions, Ownership, System Links
Week 11: Hardware Configuration, Boot Process, Boot Loaders
Week 12: Runlevels
Week 13: Designing a Scheme, Creating Partitions
Week 14: Mounting, Maintaining, Fixing Filesystems
Week 15: Disk quotas, RPM Package Management, Debian Software Management
Week 16: Exam/Project

N. Course Assignments:

1. Labs
2. Tests
3. Midterm Exam
4. Final Exam
5. Final Project

O. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70-72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63-66	D	1.00	Below Average
60-62	D-	0.67	Poor
00-59	F	0.00	Failure

P. Grading and Testing Guidelines:

Click here to enter text.

Q. Examination Policy:

Click here to enter text.

R. Class Attendance and Homework Make-Up Policy:

Click here to enter text.

S. Classroom Expectations:

Click here to enter text.

T. College Procedures/Policies:

Important information regarding College Procedures and Policies can be found on the Important information regarding College Procedures and Policies can be found on the syllabus supplement located at https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf

The information can also be found Choose an item.