

# **Online Course Syllabus**

## **Linux/UNIX Fundamentals, CIS 121**

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### **Course Overview**

This course introduces Linux and UNIX tools to both experienced computer users and to students with only a basic knowledge of computers. The course covers: orientation to Linux and UNIX; the UNIX file system; mail; a standard UNIX editor; text and information processing; file and directory organization with the commands for their management and manipulation, standard UNIX utilities, and a brief introduction to X Windows. Students will write simple UNIX shell programs using the bash shell. This course is designed to help prepare students for the LPI Linux Essentials Certificate.

**WARNING** – Students generally regard this class as challenging and time consuming.

### **Course Outcomes**

Upon successful completion of this course, you will be able to

- Understand the basic functions of the UNIX operating system.
- Be able to utilize UNIX man to get on-line help.
- Use simple Unix commands to send and receive electronic messages and mail.
- Use the standard UNIX editors.
- Use standard UNIX text processing utilities.
- Understand UNIX file and directory structures.
- Manage and manipulate UNIX files and directories.
- Know and use standard UNIX utilities and commands such as pipes and filters.
- Write and use simple shell scripts.
- Be able to redirect input and output.
- Use positional parameters and arguments with shell scripts.
- Perform basics tasks in Linux.
- Perform basic tasks in X Windows

### **Recommended Materials(NOT required)**

Recommended Textbooks:

- Linux Essentials by Roderick W Smith  
Sybex/Wiley ISBN 978-1-118-10679-2 (Any edition)
- Visual Quick start Guide - UNIX and Linux by Deborah S. and Eric J. Ray  
Peachpit Press ISBN 978-0-321-63678-2

## Time Commitment

This is a four-credit course in a 15-week format. This course may require 10 hours per week, including the time spent in class. If you are not able to commit this much time to the class, I suggest that you withdraw and take it in a later semester.

## Grading

- Grades are posted in Blackboard under **My Grades**.
- Grading is typically completed within a week of the assignment due date.

## Determining Your Grade

Quizzes: Generally given in each class after the lecture. if you don't take a quiz, your grade for that quiz will be a zero. The quiz will be graded automatically once you submit it, however, the auto grading is not accurate. So do not worry. **I will manually grade them.**

Homework assignments: Hand written lab assignments and homework will not be accepted. (Except for diagrams) Each assignment must be labeled with the student's name, instructor's name, date, course number, section number, and the assignment number.

Students should install **OpenOffice** and use it for all assignments. All pages should list the question number and the question, followed by the answer in a different color or in bold, etc. to make it distinctive. Work that is difficult to follow will be penalized. All lab assignments, homework, quizzes and exams are to be done individually. Although general discussion among students is encouraged, students who rely upon the work of others or who share their work with others will be subject to consequences ranging from loss of points to course failure and/or expulsion from the college. Assignments not handed in (or uploaded) after the start of class receive NO points.

Graded Items	Percent Each	How many	Percentage of Final Grade
Group Discussion	5	2	10%
Quizzes	2	14	28%
Homework	2	14	28%
Mid Term			14%
Final			20%

Grading Scale							
A	93 – 100%	B	83 – 86%	C	73 – 76%	D	63 – 66%
A-	90 – 92%	B-	80 – 82%	C-	70 – 72%	D-	60 – 62%
B+	87 – 89%	C+	77 – 79%	D+	67 – 69%	F	59% and below

## Course Deadlines

Please refer to the schedule at the end of this document.

## Examity

You are required to use Examity(standard live mode) to take the MidTerm/Final Exam. You need to install browser extension and keep your webcam on while you take the exam.

## Late Assignments

Late assignments will NOT be accepted

## Communication

Email Communication

- **My email address is LZHE@wccnet.edu**
- Please send emails from your WCC account to be in compliance with [federal privacy regulations](#).
- Provide a clear subject line.
- Always include your first and last name in the email message.
- Do NOT send email to me from blackboard.
- Do NOT send email to me from the cidermill server.
- **Always** including **screenshot** if you need me to help you trouble shooting your command/script/login issue.

## Expectations and Availability of Instructor

I will usually respond to **LZHE@wccnet.edu** within 24 hours. You should make a habit of checking your WCC email on a regular basis as well.

## FINAL THOUGHTS

This is a challenging class. You need to try to have all of your work done well and in on time. Print out the schedule and plan ahead. If you fall behind, catching up is very hard to do. Do not expect that you can do everything the night before. If you are taking a vacation sometime during the next 15 weeks, you may want to drop this class and take it next semester.

It is good to be a bit of a “geek”. Go beyond the basic exercises and learn more about the UNIX/Linux environment. That attitude will help you be successful in this field.

I will try to get your work back to you within a week. Together we can be successful and move you forward in your career. Never hesitate to contact me with concerns or questions. I teach because I like to and I regard my student's success as a plus for me as well.

## Course Schedule

Week	Date	Lecture	Due
1	1/11/2021	Module 1,A	11:59pm:None
2	1/18/2021	Module 2,B	11:59pm:Quiz 1 and 2 ;Ex1 and Ex A
3	1/25/2021	Module 3	11:59pm:Quiz 2 and B ;Ex B(No Ex2)
4	2/1/2021	Module 4	11:59pm:Quiz 3.1 Ex 3.1
5	2/8/2021	Module 5	11:59pm:Quiz 4;Ex 4.1
6	2/15/2021	Module 6	11:59pm:Quiz 5;Ex 5
7	3/1/2021	Module 7	11:59pm:Quiz 6;Ex 6
8	3/8/2021	Module 8, MidTerm	11:59pm:Quiz 7;Ex7, MidTerm;
9	3/15/2021	Module 9	11:59pm:Quiz 8;Ex 8
10	3/22/2021	Module 10	11:59pm:Quiz 9;Ex 9
11	3/29/2021	Module 11	11:59pm:Quiz 10;Ex 10
12	4/5/2021	Module 11	11:59pm:None(encourage to work on Q1-Q4 of Ex11)
13	4/12/2021	Module 12,13	11:59pm:No Quiz 11; Ex 11
14	4/19/2021	review	11:59pm:Quiz 12,13;EX 12,13
15	4/26/2021	Final	11:59pm:Final