IT1100 - Introduction to Linux/Unix

Description

Introduces operating system concepts, including file systems, process management, user management, and security. Students will install and configure Linux based systems. This course is required of all Computer and Information Technology majors, and open to students with a general interest in computer operating systems.

Prerequisites: none

Course fee:

$20 which covers computer administration and maintenance

Summer 2020 Sections

1. MTWH 1:00-2:35pm online, Course runs from Monday June 22 - Thursday July 30
Final exam will be given on Thursday July 30 at 1pm

Instructors

Jay Sneddon

Faculty Pages

Objectives

At the end of the course, students will be able to:

- Use basic Linux commands to interact with directories, files, processes, and the system. (PLO 1,2,3,7)
- Demonstrate that they understand the Ubuntu filesystem hierarchy. (PLO 1,2,3,7)
- Manipulate files using a text editor from the command line. (PLO 1,2,3,7)
- Read log files and make informed decisions as to what log files are telling them. (PLO 1,2,3,6,7)
- Write basic shell scripts (PLO 1,2,3,6,7)
- Perform basic administration tasks like installing programs, adding users, connecting to the network, formatting a filesystem, etc... (PLO 1,2,3,6,7)

Resources

Texts

The free text by William Shotts for this course is found online here. The text is free to view or print as preferred. Weekly reading assignments will refer to this text.

Computer Resources

Because of COVID, the Smith Lab will not be open this summer. So all the work will be done online. These computers require a valid CIT username and password. If you do not already have a CIT login, visit https://cit.dixie.edu/facilities/passwd/passwd.php to create one.

Course Website

This course has an accompanying website. You are responsible for announcements, the schedule, and other resources posted on both the website and in Canvas. The course website is accessible at http://cit.dixie.edu/it/1100/. Grading and assignments are managed at the course site on https://dixie.instructure.com.

Assignments and Exams

Assignments

Assignments generally have 10 points possible. 10 points are awarded if everything is done and correct. Points are subtracted if things are incorrect.
**Exams**

Periodic exams will be given per course schedule as outlined on Canvas. There will also be a final exam. Practical exams will also be given for students to demonstrate proficiency with the course subjects.

**Grading**

The grade for the course will be calculated as follows:

- Assignments = 30%
- Quizzes = 10%
- Exams = 30%
- Final Exam = 30%

**Absences**

Students are responsible for material covered and announcements made in class. School-related absences may be made up only if prior arrangements are made. The class schedule presented is approximate. The instructor reserves the right to modify the schedule according to class needs. Changes will be announced in class and appropriately posted to canvas or the website. Exams and quizzes cannot be made up unless arrangements are made prior to the scheduled time.

**Late work**

Assignments are due on the date specified in the schedule. Unless arranged in advance, late work will not be accepted or will be docked a significant percentage.

**Cheating and Collaboration**

Limited collaboration with other students in the course is permitted and encouraged. Students may seek help learning concepts and developing programming skills from whatever sources they have available, and are encouraged to do so. Collaboration on assignments, however, must be confined to course instructors, lab assistants, and other students in the course. Students are free to discuss strategies for solving programming assignments with each other, but this must not extend to the level of programming code. Each student must code his/her own solution to each assignment. See the section on cheating.

Cheating will not be tolerated, and will result in a failing grade for the students involved as well as possible disciplinary action from the college. Cheating includes, but is not limited to, turning in homework assignments that are not the student’s own work. It is okay to seek help from others and from reference materials, but only if you learn the material. As a general rule, if you cannot delete your assignment, start over, and re-create it successfully without further help, then your homework is not considered your own work.

You are encouraged to work in groups while studying for tests, discussing class lectures, discussing algorithms for homework solutions, and helping each other identify errors in your homework solutions. If you are unsure if collaboration is appropriate, contact the instructor. Also, note exactly what you did. If your actions are determined to be inappropriate, the response will be much more favorable if you are honest and complete in your disclosure.

Where collaboration is permitted, each student must still create and type in his/her own solution. Any kind of copying and pasting is not okay. If you need help understanding concepts, get it from the instructor or fellow classmates, but never copy another’s code or written work, either electronically or visually. The line between collaborating and cheating is generally one of language: talking about solutions in English or other natural languages is usually okay, while discussions that take place in programming languages are usually not okay. It is a good idea to wait at least 30 minutes after any discussion to start your independent write-up. This will help you commit what you have learned to long-term memory as well as help to avoid crossing the line to cheating.

**College Policies**

Click on this link - [http://academics.dixie.edu/syllabus/](http://academics.dixie.edu/syllabus/) - for comprehensive information on the Semester Dates, the Final Exam Schedule, university resources such as the library, Disability Resource Center, IT Student Help Desk, Online Writing Lab, Testing Center, Tutoring Center, and Writing Center. In addition, please review DSU policies and statements with regards to Academic Integrity, Disruptive Behavior and Absences related to university functions.

If you are a student with a medical, psychological, or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the Student Services
Center. The Disability Resource Center will determine eligibility of the student requesting special services and determine the appropriate accommodations related to their disability.

**Important Links**

Disability Resource Center - [http://dixie.edu/drcenter](http://dixie.edu/drcenter)

IT Help Desk - [http://dixie.edu/helpdesk](http://dixie.edu/helpdesk)

Library - [http://library.dixie.edu](http://library.dixie.edu)

Testing Center - [http://dixie.edu/testing](http://dixie.edu/testing)

Tutoring Center - [http://dixie.edu/tutoring](http://dixie.edu/tutoring)

Writing Center - [http://dixiewritingcenter.com](http://dixiewritingcenter.com)