IT1100 - Introduction to Linux/Unix

Covid-19

New Update (8/21/2020): Please note that face shields will not be allowed as a substitute for a cloth face covering. REQUIRED: Students MUST wear FACE MASKS while attending class. This is per DSU and Utah State requirements. If you don’t wear a mask you are asked to view the class remotely. For current information: Covid-19 Emergency Response Plan

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

Fall 2020 Sections

1. MWF 10:00-10:50am in Smith 113 (section 01)
   CRN: 40184
   Final Exam: Wednesday 9 Dec 9:00-10:50am
2. TR 1:30-2:45pm in Smith 113 (section 02)
   CRN: 41231
   Final Exam: Tuesday 8 Dec 1-2:50pm
3. W 6:00-8:30pm in Smith 113 (section 50)
   CRN: 41357
   Final Exam: Wednesday 9 December 5-6:50pm
4. Other section - see Dr. Francom

Instructors

Carol Stander
Lora Klein
Joe Francom - Joe's schedule

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
You may use the computers in Smith Computer Center. There will also be lab assistants in these labs. 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. 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/ - 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
IT Help Desk
Library
Testing Center
Tutoring Center
Writing Center

DSU Covid-19 Policy

The CDC recommends wearing cloth face coverings in public settings to slow the spread of the coronavirus and to help people who may have the virus and do not know it from transmitting it to others. Consequently, a face covering must be worn continuously while you are inside the classroom, laboratory or other instructional setting or inside a faculty members office. This practice will provide a safer instructional environment for you, your classmates, and the instructor and will help slow or stop the spread of coronavirus in our community. There will be no exceptions to this rule if you wish to attend class in person. If you have a medical condition or other objection to wearing a face covering, you are welcome to attend class via interactive live stream. Face coverings can be made from household items or purchased.