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 Information Technology(IT), Software Engineering(SE) majors, and open to students with a general interest in computer operating systems.

Prerequisites: none

Course fee:

$20 which covers computer administration and maintenance

Spring 2022 Sections

1. TR 12:00-1:15pm in Smith 113 (section 01)
   CRN: 20994
   Final Exam: Thursday May 5, 11-12:50pm
2. Online (section 40)
   CRN: 20379
   Final Exam: During finals week
3. Online (section 41)
   CRN: 23409
   Final Exam: During finals week

Instructors

Joe Francom
Tom Picklesimer

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)
- Navigate the Ubuntu filesystem hierarchy in order to create, delete, and manipulate files.(PLO 1)
- Manipulate files using a text editor from the command line. (PLO 1,2,3,7)
- Perform basic administration tasks.(PLO 1,3)
- Identify Linux commands and their proper usage.(PLO 1,3)

Communication

Your instructor will communicate regularly with you using Canvas announcements and/or email. You should make sure that you can access whichever email account is registered in Canvas. Expect a response to email inquiries within 24-48 hours. If you have not received a response to your question by then, you should double check that you have the email address correct and try again.

A discussion forum for questions during the semester will also be provided. You are encouraged to ask and answer questions that you might see in the forum.

If you are taking this class in an online setting, email or Canvas messages are the best way to get ahold of your instructor.

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 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. Canvas and associated content are best viewed with a desktop browser, sometimes mobile will not display content correctly.

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 = 25%
- Mini tasks = 5%

Here is the grading scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;= 94</td>
<td>A</td>
</tr>
<tr>
<td>&gt;= 90</td>
<td>A-</td>
</tr>
<tr>
<td>&gt;= 87</td>
<td>B+</td>
</tr>
<tr>
<td>&gt;= 84</td>
<td>B</td>
</tr>
<tr>
<td>&gt;= 80</td>
<td>B-</td>
</tr>
<tr>
<td>&gt;= 77</td>
<td>C+</td>
</tr>
<tr>
<td>&gt;= 74</td>
<td>C</td>
</tr>
<tr>
<td>&gt;= 70</td>
<td>C-</td>
</tr>
<tr>
<td>&gt;= 67</td>
<td>D+</td>
</tr>
<tr>
<td>&gt;= 64</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 64</td>
<td>F</td>
</tr>
</tbody>
</table>

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 and quizzes are due on the date specified in the schedule. Unless arranged in advance, late work will be docked 10% each day (including weekends and holidays) down to 50%. Exams will NOT be accepted late.

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 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.

Dixie State University affirms its commitment to the promotion of fairness and equity in all aspects of the educational institution. Harassment and discrimination – including sex/gender discrimination, gender identity, gender expression, sexual harassment, sexual misconduct, gender-based violence, dating violence, domestic violence, stalking, pregnancy or parental, family or marital status and or retaliation – not only disrupts our commitment to maintaining an environment in which every member of the University community is treated with respect and dignity, but may also violate University policy and federal, state, and/or local law.

Should you or someone you know experience behavior that is coercive, discriminatory, harassing, and or sexually violent in nature, or if you or someone you know has questions about their rights and options regarding such behavior, you are encouraged to contact:

Hazel Sainsbury, Dir. Of Equity Compliance, Title IX Coordinator: 435.652.7747 (ext. 7747) hazel.sainsbury@dixie.edu ; titleix@dixie.edu Incidents may also be reported directly to law enforcement, either separately or in conjunction with any report made to the University’s Title IX Coordinator, and the University will aid in making contact if requested.

Dixie State University Police: 435.275.4300 or by calling 9-1-1.

Maintaining a safe and inclusive University community is a shared responsibility. For more information on how Title IX protections can benefit you and help us keep a productive campus environment, visit titleix.dixie.edu to learn more.

**Important Links**

Disability Resource Center

IT Help Desk

Library

Testing Center

Tutoring Center