IT 3110: Systems Automation

Fall 2020 Syllabus

Course Description

This course will enhance a student's administrative skills by promoting the use of programming structures to manipulate, configure, and maintain systems. Image creation, collection, and dissemination will also be covered.

Prerequisites

IT 3100 with a C- or better

Course fees

The fee for this course is $20.00, used to assist in maintaining the CIT infrastructure.

Disability Statement

Sections

One section:

  1. MWF 12:00pm - 12:50pm Smith 113 Final exam Wed Apr 29, 11am

Instructor

Professor: Dr Joe Francom

  * Email: francom at dixie dot edu
  * Phone: 435-652-7732 (note: email preferred)
  * Office: NBURNS 237
  * Office Hours: See Below

Joe’s Fall 2020 Schedule

<table>
<thead>
<tr>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWF</td>
<td>8:30am - 9:00 - Office</td>
</tr>
<tr>
<td>MWF</td>
<td>9am - 9:50 - Office</td>
</tr>
<tr>
<td>MWF</td>
<td>10am-10:50 - IT2500(108)</td>
</tr>
<tr>
<td>MWF</td>
<td>11am-11:50 - Office</td>
</tr>
<tr>
<td>MW</td>
<td>12pm-1:15 - IT4200 (113)</td>
</tr>
<tr>
<td>MW</td>
<td>1:30pm-2:45 - IT3100 (116)</td>
</tr>
<tr>
<td>MW</td>
<td>3:00pm-4:15 - IT3300 (108)</td>
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Objectives

The student will be able to:

  * utilize scripts for configuration management (PLO 1,2,3)
  * configure DHCP servers and clients (PLO 1,2,3)
  * create and deploy system images (PLO 1,2,3)

Resources

Texts

There is an optional reference for this course:
The book will be utilized heavily and is available online.

Course Web Site

This course has an accompanying website. You are responsible for announcements, the schedule, and other resources posted on the website. Assignments and grades will be managed using Canvas, which requires a valid Dixie username and password. The course website is accessible at http://cit.cs.dixie.edu/courses/.

Assignments and Exams

Reading

Assignments

There will be several projects, with multiple projects due some weeks. The assignments are designed to promote the course objectives listed above.

Assignments are due before 11:55 pm on the due date.

All assignment submissions will be weighted equally.

Exams

There will be approximately 4 practical exams scheduled throughout the semester. The practical exams will require students to complete hands-on work on computer systems, relating to homework assignments. The students will be expected to demonstrate the practical skills listed in the course objectives. The practical exams will be conducted in a time limited setting, during class time.

There will be a final exam as scheduled during finals week. The final will be a comprehensive exam. The students will be expected to demonstrate understanding of the principles listed in the course objectives.

Grading

Assignments will count for 50% of your point total. Exams will count for 50% of your point total.

Letter grades are assigned based on the percentage of possible points attained, according to the following chart:

Here is the grading scale:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</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>
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<tr>
<td>&gt;= 84</td>
<td>B</td>
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<tr>
<td>&gt;= 80</td>
<td>B-</td>
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<tr>
<td>&gt;= 64</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 64</td>
<td>F</td>
</tr>
</tbody>
</table>

Course Policies

Fall 2020 Antivirus

Face coverings that cover students’ noses and mouths, per CDC guidelines, must be worn by all students attending in-person classes. Wearing a face covering will protect students and instructors, especially those who are most vulnerable, and will lower the risk of spreading the virus. Students who are unable to wear face coverings may remotely participate in the class via interactive live stream.

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 posted to the website. Exams and quizzes cannot be made up unless arrangements are made prior to the scheduled time.

**Time**

Courses should require about 45 hours of work per credit hour of class. This class will require about 135 hours of work on the part of the student to achieve a passing grade, which is approximately 9 hours per week. If you do not have the time to spend on this course, you should probably rethink your schedule.

**Late work**

Late work is not accepted. You are expected to turn things in by the date they are due. If something is due at 11:59pm and you are 1 minute late, you will not receive credit. Your lowest assignment score will be dropped.

Any exceptions must be discussed with the instructor. Computer failure does not qualify as an excuse for late work.

It is your responsibility to see that assignments/projects are turned in and on time. If you come to me and say, “I turned in that assignment”, yet I have no record of it, you will receive a 0. The burden of proof is on you to prove that you turned in something at a given time. We are using an electronic submission system which records when an item is submitted.

Finally, no points can be contested after a test which covers that assigned material has been given. So for example, if you come to me at the end of the semester and say “Oh, but I turned in that assignment the second week of the semester”. If I don’t have a record of it, and we have already tested on it, you will not get the points.

**Cheating and Collaboration**

Limited collaboration with other students in the course is permitted. 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.

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 a while 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.

**Important Dates**

I’m not going to list them all here but you should be familiar with calendar for the drop dates, and fee dates and stuff.
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.

DSU strive to make learning materials and experiences accessible for all students so If you are a student with a medical, psychological, or learning disability or anticipate physical or academic barriers based on disability, you are welcome to let me know so we can discuss options. Students with documented disabilities are required to contact the Disability Resource Center located in the North Plaza Building, Next to the Testing Center (435-652-7516) to explore eligibility process and reasonable accommodations related to disability.

DSU seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault we encourage you to report this to the college’s Title IX office at titleix@dixie.edu. If you report to a faculty member, she or he must notify the Title IX Director about the basic facts of the incident.

You are required to frequently check your Dmail account. Important class and university information will be sent to your Dmail account, including DSU bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at DSU and in your courses. To access your Dmail account, visit dmail.dixie.edu. Your Dmail username is your DixieID (e.g. D00111111) If you have forgotten your PIN, visit my.dixie.edu and click the Forgot Pin button.

**Important Links**

- Disability Resource Center - dixie.edu/drcenter
- IT Help Desk - dixie.edu/helpdesk
- Library - library.dixie.edu
- Testing Center - dixie.edu/testing
- Tutoring Center - dixie.edu/tutoring
- Writing Center - dixiewritingcenter.com