IT 3110: Systems Automation

Spring 2021 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. MW12:00pm - 1:15pm Smith 108 Final exam ???

Instructor

Professor: Dr Joe Francom

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

Joe's Spring 2021 Schedule

<table>
<thead>
<tr>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWF</td>
<td>8:00am - 8:50</td>
<td>IT4510(107)</td>
</tr>
<tr>
<td>MWF</td>
<td>9am - 9:50</td>
<td>IT4100(107)</td>
</tr>
<tr>
<td>MWF</td>
<td>10am-10:50</td>
<td>Office in person and via zoom</td>
</tr>
<tr>
<td>MWF</td>
<td>11am-11:50</td>
<td>IT4600(107)</td>
</tr>
<tr>
<td>MW</td>
<td>12pm-1:15</td>
<td>IT3110 (108)</td>
</tr>
<tr>
<td>MW</td>
<td>1:30pm-2:30</td>
<td>Office in person and via zoom</td>
</tr>
</tbody>
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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:

1. bash cookbook, 2nd edition [safari online]
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/](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>
</tr>
<tr>
<td>&gt;= 84</td>
<td>B</td>
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<tr>
<td>&gt;= 80</td>
<td>B-</td>
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<td>&gt;= 77</td>
<td>C+</td>
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<td>&gt;= 64</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 64</td>
<td>F</td>
</tr>
</tbody>
</table>

**Course Policies**

**Spring 2021 Covid-19**

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.

**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 a 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**

It is ok to talk to each other and to get help from each other, but in the end, everything should be your own. You should NOT copy/paste. You should know what cheating is. Cheating can be penalized with an ‘F’ on the assignment, and ‘F’ in the course, and/or appropriate annotation on campus-wide student records.

**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.

**College Policies**

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