IT 3110: Systems Automation

Spring 2019 Schedule

Week 1 (Jan 7 - 11)

- Slides
  - Logger Slides
  - DHCP Slides
- Readings
- Lectures
  - DHCP Lecture
  - Bionic Networking
- Screenshots/Helps
  - Syslog Server
  - Syslog Client
  - Syslog Filters
  - Log Rotate
  - DHCP Dynamic
  - DHCP Fixed
  - DHCP Dynamic Client
- Assignment
  - Hosts

Week 2 (Jan 14 - 18)

- Slides
  - NFS Slides
- Reading
- Lectures
- Screenshots/Helps
  - NFS How To
- Assignment
  - Logger

Week 3 (Jan 21 - 25)

- NO CLASS ON JAN 21
- Slides
  - PXE Boot
  - Kickstart
  - Diskless
- Reading
- Lectures
- Screenshots/Helps
  - Diskless boot = Note that instead of using the cp command as outlined in the screenshots, you can use the debootstrap command as shown in the diskless assignment instructions.
  - Netboot
  - FOG
- Assignment
  - DHCP
  - NFS 1

Week 4 (Jan 28 - Feb 1)

** EXAM 1 **
Week 5 (Feb 4 - Feb 8)

- Slides
  - Shell 1
  - StdOut
  - StdIn
  - Command Execution
- Reading
  - Shell review
  - stdout review
  - stdin review
  - executing commands
- Lectures
- Screenshots/Helps
- Assignment
  - Bash on Windows

Week 6 (Feb 11 - 15)

- Slides
  - Variables
  - Logic
  - Sed/Awk
- Reading
  - Variables
  - Shell logic and arithmetic
  - AWK, SED - Read 7.10-7.11
- Lectures
- Screenshots/Helps
  - SSH As root
- Assignment
  - Shell Script 1
  - Shell Script 2

Week 7 (Feb 18 - 22)

- NO CLASS FEB 18
- Slides
  - Regex
  - Shell Features
- Reading
Week 8 (Feb 25 - Mar 1)

- Slides
  - Shell Speed
  - Shell Speed
- Reading
  - Quick Shell
  - Troubleshooting
- Lectures
- Screenshots/ Helps
- Assignment
  - Shell Script 3
  - Regex
  - Sample scripting exam
  - Shell Script 4
  - Shell Script 5

Week 9 (Mar 4 - 8)

TEST 2

- Slides
  - Automation with Ansible
  - Ansible Playbooks
- Reading
- Lectures
- Screenshots/ Helps
- Assignment

Week 10 (Mar 11- 15)

- SPRING BREAK

Week 11 (Mar 18 - 22)

- Slides
  - Ansible Playbooks 2
- Reading
- Lectures
- Screenshots/ Helps
- Assignment
  - Ansible 1
  - Ansible 2
Week 12 (Mar 25 - 29)

- Slides
  - Ansible Roles
- Reading
- Lectures
- Screenshots/Helps
- Assignment
  - Ansible 3

Ansible/Python Exam

Week 13 (Apr 1 - 5)

- Slides
  - Python curtis example
- Reading
- Lectures
- Screenshots/Helps
- Assignment
  - Python

Week 14 (Apr 8 - 12)

- Slides
  - Salt
- Reading
  - Chapter 1
- Lectures
- Screenshots/Helps
- Assignment
  - Salt 1
  - Salt 2
  - Salt 3

Week 15 (Apr 15 - 19)

- SALT

Week 16 (Apr 22 - 24)

- SALT
- REVIEW
- EXAM