Linux Systems Administration
Brigham Young University – Hawaii
Winter 2015 (Jan 12 – Apr 17)

Asst. Professor Joshua Smith
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GCB 143B

(1) Overview

Like IT 320, this course is “hands-on” so expect lots of time in class spent with online exercises and labs. We’ll build upon earlier concepts with increased focus on administrative (root) functions. And who knows, perhaps by term conclusion, you won’t detest command-line interfaces so much. Perhaps.

In an increasingly hyper-connected and “flat” world, old labor standards are insufficient – a College degree, by itself, is inadequate. To succeed you must possess, and effectively demonstrate, what Brother Smith calls the Four C’s:

1) Critical Thinking; 3) Character; and,
2) Communication & Collaboration; 4) Competence.

CREDITS: Three (3)
CLASS SCHEDULE: TTh 13:50 – 15:20 (GCB 101)
FINAL EXAM: Thu, Apr 16, 16:00 – 18:50
CATALOG DESCRIPTION: Develops skills needed to set up and manage Linux systems on existing networks, including installation, hardware, fstab, bootloader, passwords, dns, rpm, and kernel services.
Prerequisite(s): CIS 101 and IT 320

REQUIRED TEXT:
Red Hat Academy Materials

SUPPLEMENTARY READINGS:
(2) BYU–Hawaii Vision & Mission

Brigham Young University–Hawaii . . . exists to assist individuals in their quest for perfection and eternal life and in their efforts to influence the establishment of peace internationally.  BYU–Hawaii Vision

The Vision and Mission are the “why” and “what” – why BYU–Hawaii exists, and what it seeks to accomplish. But “how” – how will we, collectively, achieve those lofty standards?

(3) Framework for Student Learning

The Framework for Student Learning is a powerful tool designed to empower us to rise to President McKay’s Vision and realize our shared Mission to Learn, Lead, and Build.

As we Prepare, Engage, and Improve, we will maximize our learning, which occurs best when we are:

1) Motivated by faith, guided by the Holy Spirit, and centered on serving God;
2) Active in the learning process;
3) Self-directed and take responsibility for our learning;
4) Engaged in meaningful reflection and self-assessment;
5) Open to changing how we think, feel, and act; and,
6) Constantly improving our capacity to study and learn effectively.
(4) Expectations, Policies, & Grading

Class time will rarely be used to regurgitate information from the text; you are expected to finish assigned readings **BEFORE** class and bring questions. This requires that you (and I!) **Prepare**. Class time will be focused on clarifications, discussions, answering questions, and hands-on exercises. This is where you (and I!) **Engage**. Assignments will provide opportunities to receive feedback and correction, thereby helping you to **Improve**; likewise, your feedback is welcomed, so that I too may **Improve**.

See the calendar of assignments and topics in Canvas, subject to change during the semester. No alternate final exam date or time is permitted and late assignments will not be accepted. Grades will be updated in Canvas promptly.

Bro. Smith agrees to **Prepare, Engage, and Improve**. What about you, will you also commit to **Prepare, Engage, and Improve**? *You are primarily responsible!* Poor use of the *Framework* will reduce individual and class learning. 😊

(4.1) Alternate Syllabus

Subject to Brother Smith’s approval you may create an alternate syllabus; it must satisfy the same learning outcomes identified in Section (6) and be approved before the 2nd Friday of the semester at 5:00 p.m. *In the absence of an approved, signed, and filed alternate syllabus with Brother Smith, you are subject to the terms and grading as outlined in this syllabus.*
(5) University Policies

All University personnel are expected to comply with the University Policies as part of their agreement to attend BYU-Hawaii. Subsets of the Honor Code policies are included below and are available in more detail online.

(5.1) Academic Honesty

Plagiarism, fabrication or falsification, cheating, and other academic misconduct.

(5.2) Dress and Grooming

Men. A clean and neat appearance should be maintained. Shorts must cover the knee. Hair should be clean and neat, avoiding extreme styles or colors, and trimmed above the collar leaving the ear uncovered. Sideburns should not extend below the ear-lobe. If worn, moustaches should be neatly trimmed and may not extend beyond or below the corners of mouth. Men are expected to be clean-shaven and beards are not acceptable. (If you have an exception, notify the instructor.) Earrings and other body piercing are not acceptable. For safety, footwear must be worn in all public places.

Women. A modest, clean and neat appearance should be maintained. Clothing is inappropriate when it is sleeveless, strapless, backless, or revealing, has slits above the knee, or is form fitting. Dresses, skirts, and shorts must cover the knee. Hairstyles should be clean and neat, avoiding extremes in styles and color. Excessive ear piercing and all other body piercing are not appropriate. For safety, footwear must be worn in all public places.

(5.3) Special Needs

Brigham Young University Hawaii is committed to compliance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The university makes every effort to accommodate individuals with disabilities within the scope of existing laws.

(5.4) Sexual Harassment

Unlawful Sexual Harassment is contrary to the teachings of The Church of Jesus Christ of Latter-day Saints, the university's Honor Code and applicable civil rights laws and regulations. BYUH's Honor Code requires that university personnel and students abide by Title VII of the Civil Rights Act of 1964 and Title IX of the Educational Amendments of 1972 which prohibit sexual harassment.
(6) ABET & WASC Learning Outcomes

Upon successful completion of the course, students will:

- Demonstrate mastery ability to apply knowledge of computing and mathematics knowledge appropriate to the discipline;
- Demonstrate mastery ability to analyze a problem, and identify and define the computing requirements appropriate to its solution;
- Demonstrate basic ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs;
- Demonstrate mastery ability to use of current techniques, skills, and tools necessary for computing practice;
- Demonstrate basic ability to use and apply current technical concepts and practices in the core Information Technologies;
- Demonstrate basic ability to identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems; and,
- Demonstrate basic ability to effectively integrate IT-based solutions into the user environment.
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Student Acknowledgement

I have reviewed the course syllabus and understand what is required, including:

- I must be an active learner, which occurs as I Prepare, Engage, and Improve;
- That late work will not be accepted;
- Honor Code violations will be immediately reported and appropriate action will be taken, up to and including an automatic failing grade “F”;
- I am committed to work hard and do my very best and will promptly contact the professor, Brother Smith, if I have any questions or problems related to the course work or my group work; and,
- I will come with a positive attitude, prepared to work, learn, and have fun.

____________________________ ___________________________
Printed Name Signature

___________________________
Date