

Computer Information Systems Lesson Plan**STEM Camp, Summer 2008****STUDENT & PRESENTER PROJECT GUIDE****June 15-19, 2009****6/15/2009, Group I (Red), 9:05AM – 10:05AM; Group II (Green), 10:30AM-11:30AM.****Title:** Apache Web Server: Software Engineering at Work!**Presenters:** Dr. Ken Scott**Time for Completion:** Part I: 15 Minutes; Part II: 45 Minutes

Abstract: This extremely brief experiment is to demonstrate how software engineering is used to create a web presence as a part of the Internet. Skills applied in this exercise are software engineering applications, network engineering design, number systems, TCP/IP, IPv4, systems integration, and more.

Materials:

- a. Apache Web Server: Software Engineering at Work! Guide (pp. 1-4);
- b. Lab PC's;
- c. CIS Plan of Study;
- d. Certificates of Appreciation for Each Student;
* Located at: <http://dr-kenscott.com>
- e. Lab Equipment, e.g., switch, cables;
- f. Fedora Core 5, with Apache Web Server “available”, but ‘service network restart’ needed.

Instructional Plan:

- a. Present an overview of Computer Information Systems via the Plan of Study. Discuss the role of engineers, technologists and designers of networks using CIS;
- b. Provide an overview of this project to be completed;
- c. Students construct, test, and manage Apache Web server;
- d. Discussion and relationship between this lab activity and STEM!!!

Objectives:

1. To stimulate interest in the role of engineers and technologists as the designers of the Internet;
2. To cause students to actively participate in group work;
3. To demonstrate the technology of CIS, inclusive of hardware, software, and applications;
4. To perform actual work on industry-standard equipment;
5. To give students a valid test used by engineers and technologists in networking and CIS;
6. To expose students to real-world applications used by network and systems engineers;
7. To measure student understanding via a Project Quiz ... NOT !!!!! (☺) !!!

Teams: **1) Mon, 6-15-2009, 9:05 – 10:05AM CIS Group I (Red);**
2) Tues, 6-15-2009, 10:30 – 11:30AM, CIS Group II (Green)

Student Project Guide:

Creating a Personal Web Page in HTML: What software engineers do as a profession!

I. Goal:

To introduce young-adult-learners on how to use html to create a personal web page and explorer the html tags

II. Materials:

- a. A Glossary of HTML Tags
- b. Student HTML Project Template,
- c. Web-Warriors e-clip;
- d. CIS Plan of Study
- e. Project Quiz (☺) !!!
- f. Certifications of Appreciation for each participant.

III. Procedures for the Project:

- a. Students (young-adult-learner) and faculty (older-adult-learner) introduces themselves;
- b. Plan of Study for CIS is “group-discussed” to include the role of hardware-software engineers, system designers, programmers, computer scientists, etc;
- c. Open the Notepad(Go to Start=>All Programs=>Accessories=>Notepad)
- d. From the Notepad, in the Menu Bar =>File=>Open =>Go to C-Drive and locate the Folder “STEMCamp’ => Locate the file “main”
Note: At the of the File Dialog Box, Please select “File of Types:=All types , Then you can see file called “main”
- e. You can see the Template; start writing your information in that template.
- f. How To run this File: “Go to C-Drive” Locate your Folder “STEMCamp” open the folder, Double click the file ‘main.html”
Note; If you want to change any this, go back to Notepad and make correction and open the file again
- g. View the web warriors e-clip and group-discuss;
- h. Conduct the HTML Quiz (☺).

VI. Presentations of Certificates of Appreciation (PREREQUISITE: QUIZ .)

- a. Students who attended the HTML Quiz and HTML Project are given Certificates.