SYLLABUS

DATE OF LAST REVIEW: 02/2013

CIP CODE: 47.0104

SEMESTER: Departmental Syllabus

COURSE TITLE: Introduction to Network Operating Systems for Server+

COURSE NUMBER: CRTE0209

CREDIT HOURS: 2

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

EMAIL: KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): CRT-0208 Overview of Network Services for Server+

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckcebookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION:
A computer operating system (OS) is the software foundation on which the computer applications and services run. Similarly, a network operating system (NOS) enables communication between multiple devices and the sharing of resources across a network. A NOS is, generally, an operating system that runs on a network server, such as Linux, UNIX, or Microsoft Windows Server. This course covers the following network operating systems: Microsoft Windows NT 4.0 Microsoft Windows 2000/XP Microsoft Windows 2002/2003 Server Linux UNIX.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.
COURSE OUTLINE:

I. Characteristics of a Network Operating System
   A. Overview of NOS Characteristics
   B. Differences between PCs and NOS
   C. Multiuser, multitasking and multiprocessor systems
   D. NOS server hardware
   E. Choosing a NOS
   F. Types of NOSs

II. Windows
   A. Windows Terminology
   B. Windows NT4.0
   C. Windows 2000 and XP Operating Systems
   D. Windows 2000 and 2003 Server Operating Systems

III. Linux
   A. History of Linux
   B. What is Unix?
   C. Windows 2000 Active Directory
   D. Linux Operating System
   E. Linux clients

IV. Determining software Requirements for a Linux NOS
   A. Workstation software and programs
   B. Server software and programs
   C. Additional software and programs
   D. Verifying software compatibility

EXPECTED LEARNER OUTCOMES:

A. The student will be able to describe the Characteristics of a Network Operating System.
B. The student will be able to describe Windows Network Operating Systems.
C. The student will be able to describe Linux Network Operating Systems.
D. The student will be able to describe Determining Software requirements for a Linux Network Operating System.

**COURSE COMPETENCIES:**
Upon successful completion of this course:

*The student will be able to describe the Characteristics of a Network Operating System.*
1. The student will be able to describe the Characteristics of a NOS.
2. The student will be able to compare and contrast Desktop and Network Operating Systems.
3. The student will be able to discuss the differences between Multiuser, Multitasking and Multiprocessor systems.
4. The student will be able to describe NOS server hardware.
5. The student will be able to describe how to choose a NOS.
6. The student will be able to describe the different types of NOS.
*The student will be able to describe Windows Network Operating Systems.*
7. The student will be able to describe Windows Terminology
8. The student will be able to describe Windows NT4.0.
9. The student will be able to describe Windows 2000 and XP.
10. The student will be able to describe Windows 2000 and 2003 NOS.
*The student will be able to describe Linux Network Operating Systems.*
11. The student will be able to describe the history of Linux.
12. The student will be able to describe Unix.
13. The student will be able to describe Windows 2000 Active Directory and Linux.
14. The student will be able to describe Linux Operating Systems Distributions.
15. The student will be able to describe Linux clients.
*The student will be able to describe Determining Software requirements for a Linux Network Operating System.*
16. The student will be able to describe workstation software and programs.
17. The student will be able to describe server software and programs.
18. The student will be able to additional linux software and programs and repositories.
19. The student will be able to describe how to verify software compatibility.

**ASSESSMENT OF LEARNER OUTCOMES:**
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

**SPECIAL NOTES:**
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.
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