DATE OF LAST REVIEW: 02/2013
CIP CODE: 47.0104
SEMESTER: Departmental Syllabus
COURSE TITLE: Operating System Fundamentals for Server+
COURSE NUMBER: CRTE0204
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): CRTE0116 Advanced Topics and Customer Skills for PC Technicians

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

COURSE DESCRIPTION: This course examines the components of the most popular networking operating systems in operation today, including Windows 2000 and Linux. In this module, desktop operating systems will be reviewed, including their components, limitations, and their relationship to network operating systems. This module provides an overview of PCs including the OS and computer networks. Microsoft Windows is detailed from the beginnings of MS-DOS to the latest Windows XP. The UNIX and Linux operating systems are also detailed from their origins to the current configurations. Most network applications, including the Internet, are built around a client/server relationship. The student will learn how this relationship works along with the components and configurations of the NOS.

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. Operating system basics
   A. Overview of PC Operating Systems
   B. PCs and computer networks
   C. The kernel
   D. The user interface
   E. The file system
   F. Common desktop operating systems

II. Microsoft Windows
   A. MS-DOS
   B. Microsoft Windows 3.1
   C. Windows 9x
   D. Windows NT and Windows 2000
   E. Windows XP
   F. Windows GUI
   G. Windows CLI
   H. Windows Control Panel

III. Unix and Linux on the Desktop
   A. Origins of Unix-historical
   B. Origins of Linux-historical
   C. Linux/Unix GUI
   D. Origins of Unix
   E. Origins of Linux

IV. Network Operating systems Overview
A. Common network operating systems
B. Windows and Linux NOS Comparison
C. The client-server model
D. Evaluating customer resources and requirements

EXPECTED LEARNER OUTCOMES:

A. The student will be able to describe Operating Systems.
B. The student will be able to describe Microsoft Windows.
C. The student will be able to describe Unix and Linux.
D. The student will be able to describe basic Network Operating Systems.

COURSE COMPETENCIES:
Upon successful completion of this course:

The student will be able to describe Operating Systems.
1. The student will be able to describe the Overview of PC Operating Systems.
2. The student will be able to describe the relationship of PC's and Computer Networks.
3. The student will be able to describe a Kernel.
4. The student will be able to describe a User Interface.
5. The student will be able to describe a file system.
6. The student will be able to compare common desktop operating systems.

The student will be able to describe Microsoft Windows.
7. The student will be able to describe MS-DOS.
8. The student will be able to describe Windows 3.1.
9. The student will be able to describe Windows 9x.
10. The student will be able to describe Windows NT and Windows 2000.
11. The student will be able to describe Windows XP.
12. The student will be able to describe the Windows GUI.
13. The student will be able to describe the Windows CLI.
14. The student will be able to describe the Windows Control Panel.

The student will be able to describe Unix and Linux.
15. The student will be able to describe the Historical Origins of Unix.
16. The student will be able to describe the Historical Origins of Linux.
17. The student will be able to describe the Linux/Unix GUI.
18. The student will be able to describe the Origins of Unix.
19. The student will be able to describe the Origins of Linux.

The student will be able to describe basic Network Operating Systems.
20. The student will be able to describe Common network operating systems.
21. The student will be able to compare/contrast Windows and Linux NOS.
22. The student will be able to describe the client-server model.
23. The student will be able to evaluate customer resources and requirements.

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.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

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