SYLLABUS

DATE OF LAST REVIEW: 02/2013
CIP CODE: 47.0104
SEMESTER: Departmental Syllabus
COURSE TITLE: Introduction to Networking for Server+
COURSE NUMBER: CRTE0205
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): CRTE0204 Operating Systems 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:
This course starts with an overview of networking. The student will learn about the types of networks used today, including LAN, WAN, peer-to-peer, and client/server. The benefits of an open system as opposed to a proprietary system are discussed. The OSI model represents an open system. As covered in this chapter, the OSI reference model divides the functions of the network into seven layers that enable communication. The student will gain an understanding of protocol suites including specific protocols used in TCP/IP, IPX/SPX, and AppleTalk. This course will also explain LAN architecture, Ethernet, Token Ring, and FDDI.

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. Benefits of Networking
   A. File, Print, and application services
   B. Mail services
   C. Directory and Name Services
   D. The Internet
   E. Network Administration

II. Types of Networks
   A. Overview
   B. Local-Area-Networks (LAN)
   C. Wide Area Networks (WAN)
   D. Peer to Peer Networks
   E. Client/Server Networks
   F. Worksheet: types of Networks

III. Network Protocols
   A. Protocol Suite
   B. TCP/IP
   C. Worksheet: The OSI Reference Model
   D. Proprietary vs. Open Standards

IV. LAN Architectures
   A. Ethernet
   B. DSL
   C. Cable Modems
EXPECTED LEARNER OUTCOMES:

A. The student will be able to describe the benefits of Networking.
B. The student will be able to describe the types of networks.
C. The student will be able to describe network protocols.
D. The student will be able to describe LAN architectures.

COURSE COMPETENCIES:
Upon successful completion of this course:

The student will be able to describe the benefits of Networking.
1. The student will be able to describe File, Print and Application services.
2. The student will be able to describe Mail Services.
3. The student will be able to describe Directory and Name Services.
4. The student will be able to describe the Internet.
5. The student will be able to describe Network Administration.

The student will be able to describe the types of networks.
6. The student will be able to compare types of Networks.
7. The student will be able to describe Local Area Networks (LAN).
8. The student will be able to describe Wide Area Networks (WAN).
9. The student will be able to describe Peer to Peer Networks.
10. The student will be able to describe Client/Server Networks.

The student will be able to describe network protocols.
11. The student will be able to describe a Protocol Suite.
12. The student will be able to describe TCP/IP.
13. The student will be able to compare and contrast Proprietary vs. Open Standards.

The student will be able to describe LAN architectures.
14. The student will be able to describe Ethernet.
15. The student will be able to describe DSL.
16. The student will be able to describe Cable Modems (Broadband).

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.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center in Rm. 3354 or call (913) 288-7670.