SPECIAL NOTE:

This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):

Please check with the LCC bookstore, http://www.labette.edu/bookstore, for the required texts for this class.

COURSE NUMBER: COMP 201

COURSE TITLE: NETWORK SERVER

SEMESTER CREDIT HOURS: 3

DEPARTMENT: Computer Science

DIVISION: CTE

PREREQUISITE: COMP 182 Network Administration Applications

REVISION DATE: November 2016

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):
Online Training: Server+

COURSE DESCRIPTION:
This course shows users how to install and configure Windows Server software, as well as how to install and configure Active Directory. The course covers how to install and manage print services, how to handle TCP/IP addresses, and how to set up and manage directory services, domains, and trust relationships in a Windows server-based environment. It discusses how to manage users and groups, including details on profiles, policies, and groups, and covers how Windows server controls access to NTFS files and directories, and how to manage shares. The course concludes by covering strategies for backing up and restoring a Windows Server machine and discussing security strategies for Windows Server OS.

COURSE OUTCOMES AND COMPETENCIES:

Students who successfully complete this course will be able to:

1. Explain the different server architectures
- Explain the purpose and function of server form factors
- Explain the how to install, configure and maintain server components
- Compare and contrast power and cooling components.

2. Explain how to setup and maintain server administration rights.
- Install and configure server operating systems.
- Compare and contrast server roles and requirements for each.
- Use access and control methods to administer a server, given a scenario.
- Be able to perform proper server maintenance techniques.
- Explain the purpose and operation of virtualization components.

3. Explain the procedures to setting up and install storage systems.
- To install and deploy primary storage devices.
- Be able to install and configure a RAID system.
- To explain hardware and features of various storage technologies.
- To be able to calculate appropriate storage capacity and plan for the future.

4. Set up and monitor system security
- Explain how to compare and contrast physical security methods and concepts.
- Be able to apply server hardening techniques.
- Explain basic network security systems and protocols.
- Implement logical access control methods based on company policy.
- Implement data security methods and secure storage disposal techniques.
- Implement proper environmental controls and techniques.

5. Design and set up networking for the server.
- Explain how to configure servers to use IP addressing and network infrastructure services.
- Explain how compare and contrast various orts and protocols.
- Explain how to install cables and implement proper cable management procedures.

6. Setup and design a disaster recovery plan.
- Explain the importance of disaster recovery principles.
- Implement appropriate backup techniques.

7. Design steps in troubleshooting the server.
- Explain troubleshooting theory and methodologies.
- Explain the process of troubleshooting hardware problems.
- Explain the process of troubleshooting software problems.

- Explain how to diagnose network problems.
- Explain how to diagnose and troubleshoot security issues.