

LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

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 182

COURSE TITLE: NETWORK ADMINISTRATION APPLICATIONS

SEMESTER CREDIT HOURS: 3

DEPARTMENT: Computer Science

DIVISION: CTE

PREREQUISITE: COMP 180

REVISION DATE: November 2016

COURSE DESCRIPTION:

This course is designed to implement the Network+ technologies from the COMP 180 Introduction to Networking course.

COURSE OUTCOMES AND COMPETENCIES:

Students who successfully complete this course will be able to:

1. Install and setup a basic LAN in the lab

- Design the layout of the LAN.
- Acquire all necessary materials for the LAN.
- Install cables and wall plates.
- Connect all cables and patch panels.
- Test all equipment, repair any defective materials.

2. Install and setup up a wireless network.

- Design the layout for the wireless network
- Acquire all necessary materials for the WAN.
- Install wireless network cards and test.
- Setup wireless router for basic wireless connections.
- Setup up different types of security on the wireless router

- Connect all wireless devices to the router.
- Test all equipment for bandwidth and troubleshoot errors.

3. Setup and configure access points

- Design location of access points
- Acquire different types of access points.
- Locate and install access points.
- Setup and test access points

4. Develop and install a virtual network

- Design the virtual network
- Setup a virtual OS
- Setup and install a virtual network card.
- Test and troubleshoot the virtual network.

5. Solve network problems and how to prevent network downtime, loss of data and security breaches.

- To solve network problems with current resources.
- Understanding and using Internet resources.