**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: NTWK 1061

Course Title: Linux II

Credit Hours: 3

Prerequisite: NTWK 1030 Linux I with a “C” or better

Division/Discipline: Workforce Training and Community Education

Course Description: Linux II prepares students to administer a Linux network operating system. Students learn to install, configure, manage, monitor and troubleshoot a Linux server. Part two of a two course sequence which prepares students for Linux+ certification.

# **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

Linux II is a requirement for the A.A.S. Linux II is the second course in a two course sequence which prepares students for Linux+ certification.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Implement Shells, Scripting and Data Management
   1. Customize and use the shell environment
   2. Customize or write simple scripts.
   3. Manage SQL data
2. Configure User Interfaces and Desktops
   1. Install and configure X11
   2. Setup a display manager
   3. Illustrate Accessibility
3. Implement Administrative Tasks
   1. Manage user and group accounts and related system files.
   2. Automate system administration tasks by scheduling jobs
   3. Employ Localization and internationalization
4. Employ Essential System Services
   1. Maintain system time
   2. Apply System logging
   3. Examine Mail Transfer Agent (MTA) basics
   4. Manage printers and printing
5. Demonstrate Networking Fundamentals
   1. Identify fundamentals of internet protocols
   2. Apply basic network configuration
   3. Demonstrate basic network troubleshooting
   4. Configure client side DNS
6. Deploy Security
   1. Perform security administration tasks
   2. Setup host security
   3. Secure data with encryption
7. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

# **ATTENDANCE REQUIREMENTS**

1. **COURSE OUTLINE**