

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITN 111

Credits: 4

Course Title: Server Administration (Server 2012)

Course Description: Covers basic instruction in various network protocols, name resolution services, remote access, security, and print installation, configuration, administration, monitoring, and troubleshooting of Server Administration software (Server 2012) in an Active Directory domain environment. Prerequisite: ITN 110 or school approval. Lecture 4 hours per week.

General Course Purpose: Prepares students to manage servers in a networked environment. Can lead to industry certification. Serves as either a requirement or elective for designated IT programs.

Course Prerequisites and Co-requisites:

Prerequisite: ITN 110 - Client Operating System (Windows 8) or school approval

Course Objectives:

Upon completing the course, the student will be able to:

- a. Plan for server deployment;
- b. Plan for and implement server commissioning and decommissioning;
- c. Plan for and implement server roles;
- d. Create a configuration change plan;
- e. Plan and implement security;
- f. Manage application versioning;
- g. Plan for high-availability server deployment;
- h. Plan a server update maintenance schedule;
- i. Maintain a Distributed File System (DFS);
- j. Define server backup requirements and policies;
- k. Plan and implement a server restore;
- l. Plan server management strategies;
- m. Plan and implement a group policy strategy;
- n. Monitor servers for performance evaluation and optimization;
- o. Plan server monitoring;
- p. Troubleshoot hardware issues;
- q. Troubleshoot software issues; and
- r. Troubleshoot network issues.

Major Topics to Be Included:

- a. Server operating system
- b. File services
- c. Directory services
- d. Software distribution and updates
- e. Assigned server profiling and monitoring
- f. Troubleshooting
- g. Security
- h. Engineering projects support
- i. Server builds and configuration

Effective Date of Course Content Summary (Month, Date Year): January 1, 2013