

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITN 111

Credits: 4

Course Title: Server Administration (Server 2016)

Course Description: Covers installation, configuration, administration, management, maintenance, and troubleshooting of a server in a networked 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 or school approval

Student Learning Outcomes:

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: January 1, 2018