

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: ITN 200 **Credits:** 3

Course Title: Administration of Network Resources

Course Description:

Focuses on the management of local area network servers. Teaches proper structuring of security systems. Explains print queues, disk management, and other local area network (LAN) issues. Presents concerns and issues for the purchase and installation of hardware and software upgrades. Can be taught using any network operating system or a range of operating systems as a delivery tool. Co-requisite ITN 101. Lecture 3 hours per week.

General Course Purpose:

This course teaches the principles of LAN management and the skills necessary to maintain and manage a network. It will provide an overview of LAN operations, the importance of servers, backup, security, user service, and acquisition and installation in LAN operations, the role of LAN managers in these functions, and other topics related to server and client management and performance. The course will help prepare the student to function as a LAN manager and/or LAN system administrator.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- Understand operating system basics and hardware requirements;
- Understand file system management;
- Understand user and security group management;
- Understand network printing;
- Understand server management; and
- Understand virtualization.

Major Topics to Be Included:

- Disk management
- Hardware management
- Server performance
- Profiles
- Group accounts
- User accounts
- Computer accounts
- Authentication
- Shares
- Permissions
- File systems
- Printing

- Backup and restore
- Troubleshooting

Effective Date/Updated: January 20, 2022