

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

Course Prefix and Number: ITN 100

Credits: 3

Course Title: Introduction to Telecommunications

Course Description

Surveys data transmission systems, communication lines, data sets, network interfacing protocols, and modes of transmission. Emphasizes network structure and operation. Prerequisite or co-requisite: ITE 115 or school approval. Lecture 3 hours per week.

General Course Purpose

This course studies the major aspects of telecommunications services and equipment and analyzes voice, data, image, and facsimile systems.

Course Prerequisites/Corequisites

ITE115 or school approval

Course Objectives

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

- a. understand the past, the present and the future of telecommunications.
- b. understand the management of telecommunications systems.
- c. understand the principles of the selecting and implementing telecommunication systems.
- d. understand the principles of data and voice telecommunications.
- e. understand the fundamentals of telephony.
- f. understand definitions for acronyms and terms used in information technology.

Major Topics to be Included

- a. History of Telecommunications
- b. Principles of Telecommunications Management
- c. Fundamentals of Telephony
- d. Telecommunications networks
- e. Principles of Traffic Engineering
- f. Introduction to Data Telecommunications
- g. Introduction to Voice Telecommunications

Effective Date of Course Content Summary: 10/16/2008