

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: TCOM-425 Department: Telecommunications Tech

Course Title: Voice and Video Systems Semester: Fall Year: 2009

Objectives/Competencies

Course Objective	Competencies
1. To become familiar with the concept of a plain old telephone (POTS) system.	1. To be able to describe the components of a telephone system and their interrelationships. 2. Understand the circuitry of a traditional telephone system. 3. Understand the fundamental concepts of a traditional telephone system private branch exchange (PBX). 4. Understand the fundamental programming and configuration of a traditional telephone system private branch exchange (PBX).
2. To become familiar with the concept of a voice over IP (VOIP) telephone system.	1. To be able to describe the components of an IP telephone system and their interrelationships. 2. Understand the principles of an IP telephone system. 3. Understand the fundamental concepts of the call center management software. 4. Understand the fundamental programming and configuration of IP telephones.

Course Objective	Competencies
3. To become familiar with analog video systems.	<ol style="list-style-type: none">1. To be able to describe the components of an analog video system and their interrelationships.2. Understand the fundamental concepts analog video signal encoding.3. Understand the limitations of analog video signal transmission.
4. To become familiar with digital video systems.	<ol style="list-style-type: none">1. To be able to describe the components of a digital video encoding/decoding (codec) system and their interrelationships.2. Understand the fundamental concepts digital video signal encoding.3. Understand the transmission and storage of digital video signals.