

SYLLABUS  
PART I  
EDISON COMMUNITY COLLEGE  
CIT 214S NETWORKING ESSENTIALS  
3 CREDIT HOURS

**COURSE DESCRIPTION**

Introduction to computer networks and data communications. Topics include data and signals, types of networks, hardware, protocols, topologies and network services. Provides students with a broad base of knowledge in computer networking and data communications. Prerequisite: CIT 100S or CIT 110S. Lab fee.

**COURSE GOALS**

The student will:

1. Interpret functions of the network and its services.
2. Illustrate various types of network architectures
3. Discriminate between network protocols, networking services and their uses
4. Critique network scenarios and recommend solutions
5. Analyze a variety of technology related security and ethics issues

**CORE VALUES**

The Core Values are a set of principles which guide in creating educational programs and environments at Edison. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

**TOPIC OUTLINE**

1. Fundamentals of Communications
2. Transmission Basics, Topologies, and Access Methods
3. Network Hardware, Media and Protocols
4. WANS's, Internet Access and Remote Connectivity
5. Network Operating Systems and Managing Networks
6. Managing and Troubleshooting Networks
7. Ensuring Integrity and Availability
8. Maintaining and Securing the Network.