SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
CIS 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. Lab fee.

COURSE GOALS
The student will:

Bloom's Level		Program Outcomes
2	1. Interpret functions of the network and its services.	3, 5, 6
3	2. Illustrate various types of network architectures.	5, 6
5	3. Discriminate between network protocols, networking services, and their uses.	3, 7, 8
5	4. Critique network scenarios and recommend solutions.	3, 7, 8
4	5. Analyze a variety of technology related security and ethics issues.	1, 3, 8

CORE VALUES
The Core Values are a set of principles that guide Edison State Community College in creating its educational programs and environment. They will be reflected in every aspect of the College. Students' educational experiences will incorporate the Core Values at all levels, so that a student who completes a degree program at Edison State Community College will not only have been introduced to each value, but will have had them reinforced and refined at every opportunity.

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. Network Management and Troubleshooting
7. Network Integrity and Availability
8. Network Security