

SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
CIS 216S SYSTEMS ADMINISTRATION
3 CREDIT HOURS

COURSE DESCRIPTION

Comprehensive study of systems administration with an emphasis on installing, configuring, managing, maintaining, monitoring, and troubleshooting server operating systems. Disaster recovery plans, system documentation, and IT governance concepts will also be included. Prepares students for the CompTIA Server+ certification exam. Prerequisite: CIS 211S and CIS 214S. Lab fee.

COURSE GOALS

The student will:

Bloom's Level		Program Outcomes
4	1. Select, install, and configure server operating systems and hardware.	3, 5, 7
3	2. Establish access to resources and data.	1, 3, 6, 7
4	3. Analyze and troubleshoot system issues and devise solutions to those issues.	3, 6, 8
3	4. Establish a secure system using server hardening best practices.	1, 3, 6, 7, 8
5	5. Measure system performance using appropriate monitoring tools.	3, 6, 7, 8
2	6. Describe a disaster recovery plan.	1, 5, 6, 8
5	7. Devise and implement IT governance.	1, 3, 5, 6, 8
5	8. Create and maintain system documentation.	1, 3, 4, 5, 6, 8

CORE VALUES

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State. 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. Getting Started with Systems Administration
2. Installing Server Operating Systems
3. Configuring Server Operating Systems
4. Managing Groups and User Accounts
5. Configuring, Managing, and Troubleshooting Resource Access
6. Configuring a Print Server
7. Configuring and Managing Data Storage
8. Managing Server Network Services
9. Configuring Remote Access Services
10. Securing a Server
11. Monitoring Servers and Networks
12. Managing System Reliability and Availability