

SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
CIS 217S CLOUD ADMINISTRATION
3 CREDIT HOURS

COURSE DESCRIPTION

Comprehensive study of cloud administration with an emphasis on installing, configuring, managing, maintaining, monitoring, and troubleshooting virtual cloud-based infrastructure. Prepares students for the CompTIA Cloud+ 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 operating systems in the cloud.	3, 5, 7
3	2. Establish identities and access to cloud-based resources and data.	1, 3, 7, 8
3	3. Migrate on-premise systems to the cloud.	1, 3, 6, 7
4	4. Analyze and troubleshoot issues and devise solutions to those issues.	3, 6, 8
3	5. Establish secure cloud-based resources using hardening best practices.	1, 3, 6, 7, 8
5	6. Measure system performance using appropriate monitoring tools.	3, 6, 7, 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. Introduction to Cloud Computing and Administration
2. Virtual Hardware
3. Migration to the Cloud
4. Cloud Infrastructure
5. Cloud Connectivity and Troubleshooting
6. Security of Cloud Resources
7. Identity and Access Management
8. Cloud Storage
9. Cloud Capacity and Performance Management
10. Cloud Automation