Cloud Foundations   2023-2024 Catalog

[ARCHIVED CATALOG]

SVAD 150 - Cloud Foundations

PREREQUISITES: Demonstrated readiness for college-level English
PROGRAM: Cloud Technologies
CREDIT HOURS MIN: 3
LECTURE HOURS MIN: 2
LAB HOURS MIN: 2
DATE OF LAST REVISION: Fall 2022

Cloud Foundations is intended for students who seek a general understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, core services, security, architecture, pricing, and support.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:

1. Describe cloud deployment models
2. Describe a cloud-based global infrastructure
3. Identify elements of the Total Cost of Ownership
4. Describe the Shared Responsibility model between the customer and cloud provider
5. Create and configure a virtual private cloud environment
6. Create and configure server instances and storage volumes
7. Discuss methods for implementing security in the cloud
8. Discuss different database solutions and discuss best use cases of each
9. Explain how load balancing and high availability are achieved in the cloud
10. List and explain the principles of a well-architected design
11. Apply Security and Compliance Controls in cloud environments

COURSE CONTENT: Topical areas of study include -

- Cloud concepts overview
- Total Cost of Ownership
- Compute and Serverless Services
- Storage
- Relational and NoSQL Database
- Networking
- Content Delivery
- Cloud Monitoring and Management
- Architecting
- Pricing and Support
- Automation
- Cloud Security
- Various Cloud Platform Providers

[Course Addendum - Syllabus (Click to expand)](#)