

Spokane Falls Community College
COURSE LEARNING OUTCOMES AND OUTLINE

Prefix and Course Number
Course Title

ISIT 344
VIRTUALIZATION AND STORAGE

Last Modified: Fall 2015

Course Learning Outcomes

By the end of this course, a student should be able to:

- Install and configure virtualization technology such as VMware.
- Install and configure virtual server components such as vCenter.
- Configure and manage virtual network and storage such as vCenter server or ESXi.
- Deploy, manage and migrate virtual machines.
- Describe the architecture of a Data Center environment with RAID and Intelligent Storage Systems.
- Configure and manage a Storage Area Network (SAN).
- Describe a system backup and restoration.
- Configure replication of data.
- Configure security through best practices.

Course Outline

1) Virtual Technology (VMware...)

- a) Installation & Configuration (VMware, vSphere, ESXi...)
- b) Best practices (vCenter...)

2) Deploy and Manage virtual machines

3) Access control, resource monitoring, storage management, scalability, data availability and protection.

4) RAID and Intelligent Storage Systems architecture

- a) Hardware
- b) Software
- c) Best practices

5) Data storage and management

- a) Storage Area Network
- b) Data backup and restoration practices
- c) Data storage security