

LINC 89: INTRODUCTION TO MICROSOFT WINDOWS SERVERS

Foothill College Course Outline of Record

Heading	Value
Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Student Learning Outcomes

- Install a Windows Server
- Configure network service protocols
- Configure network service protocols
- Install a Windows Server

Description

Introductory course covers the fundamentals of Microsoft Windows server infrastructure, setup and administration. Topics include managing file systems (including Active Directory Domain Services [AD DS]), networking services, Hyper-V configuration, devices, user accounts, backups, and basic security.

Course Objectives

The student will be able to:

- Install a Windows server
- Configure network service protocols
- Configure and manage data storage and printers
- Configure and manage server resources

Course Content

- Server concepts
 - Server vs. desktop computers
 - Purpose of server
 - Server configurations
 - Server operating systems
 - Hardware and devices
- Installing and configuring a Windows server
 - Introduction to Active Directory Domain Services
 - Implementing networking services
 - Implementing local storage
 - Implementing file and print services

- Configure an Active Directory and manage server storage systems
 - Managing Active Directory Domain Services objects
 - Automating Active Directory Domain Services administration
 - Organizing with forests, domains and sites
 - Raising domain and forest functional levels
 - Locating Flexible Single Master Operations (FSMO) roles
- Configure server peripheral devices
- Control and monitor server access
- Remote Desktop Services and Virtual Desktop Infrastructure (VDI)
 - Implementing Server Virtualization with Hyper-V
 - Implementing session-based desktop deployment
 - Configuring web access for RemoteApp programs
 - Pooled vs. personalized desktop collections
- Deploying group policies for central management
 - Contrasting computer/user policies and preferences
 - Locking down the desktop with administrative templates

Lab Content

- Windows Server Operating System Lab
- Server Hardware Configuration Lab
- Active Directory System Lab
- Configure Server Peripheral Lab
- Control Access Lab
- Remote and Virtual Desktop Infrastructure Lab
- Group Policies Lab

Special Facilities and/or Equipment

- When offered on/off campus: Lecture room equipped with overhead projector, white/black board, and a demonstration computer connected online. Computer laboratories equipped with online PCs and Macintosh computers, network server access, and printers.
- When taught via Foothill Global Access on the Internet: Students must have currently existing email accounts/email address and ongoing access to computers with email software, GUI web browsing capability, FTP program, and access to the World Wide Web.

Method(s) of Evaluation

- Completed written homework assignments and lab reports
- Class performance with demonstrations
- Quizzes
- Final exam

Method(s) of Instruction

During periods of instruction the student will be:

- Actively taking notes during lectures and demonstrations
- Actively engaged in self-paced learning practices
- Conducting online research
- Completing lab work
- Meeting with other students in one-on-one sessions or small group instruction

Representative Text(s) and Other Materials

Carpenter, Tom. Microsoft Windows Server Administration: Essentials. Sybex, 2011. Print.

Although this text is older than the suggested "5 years or newer" standard, it remains a seminal text in this area of study.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

Reading assignments: Weekly reading assignments from the text, online curriculum, instructor's chapter notes, PowerPoint, and outside sources, 20-40 pages weekly.

Discipline(s)

Computer Service Technology, Instructional Design/Technology