# Enterprise Computing                           2023-2024 Catal

[ARCHIVED CATALOG]

## SVAD 121 - Enterprise Computing

**PREREQUISITES:** ITSP 135 - Hardware / Software Support or (ITSP 132 - IT Support Essentials I and ITSP 134 - IT Support Essentials II)
**PREREQUISITES/COREQUISITE:** (NETI 105 - Network Fundamentals or NETI 104 - Introduction to Networking or NETI 109 - Networking I)

PROGRAM: Cloud Technologies
**CREDIT HOURS MIN:** 3
LECTURE HOURS MIN: 2
LAB HOURS MIN: 2
DATE OF LAST REVISION: Fall, 2020

Provides students the ability to implement, administer, and troubleshoot information systems that incorporate the Microsoft Windows clients and servers in an enterprise environment. Students will be introduced to managing applications, files, folders, and devices in a windows active directory environment.

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

1. Perform and troubleshoot an unattended installation of Windows servers and clients.
2. Deploy service packs and other critical updates.
3. Configure, troubleshoot, and control access to system resources such as files, printers, and web sites.
4. Manage and troubleshoot the use and synchronization of offline files.
5. Monitor and optimize usage of system resources, disk performance, compression, and quotas.
6. Manage, recover, and optimize availability of processes, System State data, and user data.
7. Configure and manage user profiles.
8. Manage applications by using Windows Installer packages.
9. Install, configure, and troubleshoot shared and remote access, virtual private network (VPN), and network protocols.
10. Configure and troubleshoot accessibility services.
11. Configure and troubleshoot the TCP/IP protocol.
12. Encrypt data on a hard disk by using Encrypting File System (EFS).
13. Implement, configure, manage, and troubleshoot policies in a Windows environment, including auditing, local accounts and security.

COURSE CONTENT: Topical areas of study include -

- Unattended installations and answer files
- Troubleshooting failed installations
- Network services, DNS, DHCP, and WINS
- Control access to printers and files/folders
- Distributed file system (Dfs)
- Local security
- Backup and System restoration
- Network protocols

- Remotely administer servers and clients
- Auditing and managing resource access
- Configure and manage TCP/IP protocols
- Remote server usage
- Encrypting File System (EFS)
- Local security policy
- Remote Access Technologies
- Understand Client and Server OS licensing
- Server and Desktop Virtualization concepts and Technologies
- Centralized update management
- Centralized Storage Architecture
- (SAN/NAS)
- Local user accounts
- Auditing
- Account policy
- Local user authentication
- Domain user accounts
- Active Directory administration
- Security configuration
- Update drivers
- Windows Installer packages
- Controlling Desktop settings
- Managing network print devices
- Configure disks, volumes and partitions, RAID

### *CERTIFICATION ASSOCIATED COURSE:*

*All students enrolled in this course are required to take the corresponding certification exam at some point on or before the last day of the course. The seat, allowing the student to take the certification exam, was paid for by the student as a consumable fee at the beginning of the course, along with tuition. If the student does not take the exam, the student will earn an "F" for the class. If the student takes the exam and does not pass the exam, the highest grade possible in the course is a "B." However, if the student passes the exam, it will account for 20% of the total course grade. Students will be assessed the current fee in order to take the examination. This consumable fee will be automatically encumbered upon enrollment in the course.*

### *CERTIFICATION/LICENSURE DISCLAIMER:*

*Ivy Tech cannot guarantee that any student will pass a certification or licensing exam. Your success will be determined by several factors beyond the instruction you are given in the classroom including your test-taking skills, your willingness to study outside of class, and your satisfactory completion of appropriate practice exams. Certification exam questions are drawn from databases of tens of thousands of possible questions and no two people are asked exactly the same progression of questions. Therefore, a thorough understanding of the subject matter is required. The goal of Ivy Tech in providing a certification exam studies class is to assist you in understanding the material sufficiently to provide a firm foundation for your studies as you prepare for the exam.*

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