



Microsoft Server Administration II

2023-2024 Catalog

[ARCHIVED CATALOG]

SVAD 236 - Microsoft Server Administration II

PREREQUISITES: [SVAD 231 - Microsoft Server Administration I](#)

PROGRAM: Cloud Technologies

CREDIT HOURS MIN: 3

LECTURE HOURS MIN: 2

LAB HOURS MIN: 2

DATE OF LAST REVISION: Fall, 2016

Second of a three-course sequence in which Microsoft server is used for building a server-based infrastructure in an existing enterprise environment. The student will install and configure servers in various roles. Students will install and configure Nano Server, create and manage images for deployment, implement storage technologies, work with Hyper-V, Windows Containers and high availability solutions.

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

1. Deploy Configure and Maintain Server.
2. Configure, maintain and troubleshoot Domain Name Services (DNS).
3. Design and Implement DHCP and IPAM.
4. Implement Remote Access Solutions.
5. Implement Core Network Solutions.
6. Implement Distributed File Systems and Branch Cache.
7. Implement Advanced Network Solutions.

COURSE CONTENT: Topical areas of study include -

- Domain Naming System (DNS)
- VPN Configuration
- DNS Security
- Direct Access
- Service Logging
- Network Policy Server
- DNS Record Types
- IPv4 and IPv6 addressing
- DNS Zones and Scopes
- Distributed File Systems
- DHCP for IPv4 and V6
- Branchcache
- IP Address Management (IPAM)
- NIC Teaming
- Configuration Auditing
- Quality of Service
- Role Based Access Control

- Single Root I/O Virtualization
- Network Address Translation
- Software Defined Networking
- IP Routing

**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 \(Click to expand\)](#)
