

**University of Arkansas - Fort Smith**  
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### **General Syllabus**

#### **NET 2113 Microsoft Server Foundations**

Credit Hours: 3                      Lecture Hours: 1                      Laboratory or other types of Hours:4

Prerequisite: NET 1243 Networking with Enterprise Devices

Effective Catalog: 2021-2022

#### **I. Course Information**

##### **A. Catalog Description**

Introduces the foundations of using Microsoft server software for networking infrastructure as well as hosting business applications.

#### **II. Student Learning Outcomes**

##### **A. Subject Matter**

Upon successful completion of this course, the student will be able to:

1. Install or provision Microsoft server software to meet a given set of data sharing requirements
2. Install, configure, and maintain Microsoft server software to service network infrastructure (DHCP/DNS/SLAAC etc.) application requirements.
3. Install, configure, and maintain Microsoft server software to service organization (directory services/print services/webservices etc.) requirements.
4. Explain the capabilities and applications of virtualization technologies, such as Infrastructure As A Service (IAAS), Platform As A Service (PAAS), Software As A Service (SAAS) and other virtualization technologies.
5. Use a scripting language to automate the administration of Microsoft servers.

##### **B. University Learning Outcomes (ULO)**

This course enhances student abilities in the following areas:

##### **Analytical Skills**

**Critical Thinking Skills:** Students will identify a problem or issue, then generate solutions/analysis of problems/issues evaluated.

**Ethical Decision Making**

Students will identify ethical dilemmas and affected parties in Microsoft Server administration.

**III. Major Course Topics**

- A. Overview of server technologies
- B. Installation / Provisioning of Windows Server
- C. Compute / Memory / Storage / Networking considerations
- D. Security considerations
- E. Network infrastructure (DNS/DHCP/SLAAC/ etc...)
- F. Organizational infrastructure (directory services/file/print/storage/Internet)
- G. Virtualization services and considerations
- H. Administration and monitoring