

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Information Technology Systems</u>
COURSE RUBRIC AND NUMBER	<u>ITNW 1354</u>
COURSE TITLE	<u>Implementing and Supporting Servers</u>
COURSE CREDIT HOURS	<u>3 3 : 1</u> Credits Lec Lab

I. Catalog Description

Develops skills necessary to implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. **Prerequisite: ITCC 1314. (3:1). Lab fee.**

II. Course Objectives

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

- A. Identify Windows Server operating system editions, roles, and features.
- B. Plan, install, configure, and upgrade Windows Servers with different editions, roles, and features with both a graphical user interface (GUI) and a Server Core command line environment.
- C. Utilize PowerShell for basic scripting and configuration tasks.
- D. Utilize Remote Management features to communicate with, integrate and administer servers.
- E. Explore Windows Server file systems basics and configure and manage disks, virtual disks and storage spaces.
- F. Manage and monitor data resources by using NTFS (sharing, permissions, securing files, etc.).
- G. Provide network access to file resources by creating storage solutions that provide flexibility, high availability, high performance and fault tolerance.
- H. Explore the Hyper-V server role as a virtualization platform to deploy and manage servers and failover clusters in a production and test environment.
- I. Maintain and monitor server and client installations with WSUS (Windows Server Update Services).
- J. Implement security solutions with software such as Windows Defender.
- K. Monitor and optimize performance and security in Windows Server.
- L. Describe backup, recovery, and maintenance procedures for Windows Server.
- M. Describe Windows Nano Server and identify usage scenarios.
- N. Identify non-technical concepts related to the I.T. profession to include oral and written communication skills, ethics, teamwork, laws, regulations and policies, time-management, etc.
- O. Investigate business world scenarios and best practices for implementing server solutions.
- P. Create and manage virtualized machines, networks, and hard devices utilizing Windows Server technologies.
- Q. Utilize software tools to troubleshoot Windows Server problems.

III. THECB Learning Outcomes (WECM)

1. Configure peripherals and devices.
2. Set up servers.
3. Configure directory replication.

4. Manage licensing.
5. Create and manage system policies and profiles.
6. Administer remote servers and disk resources.
7. Create and share resources.
8. Implement fault-tolerance.
9. Configure servers for interoperability.
10. Install and configure Remote Access Services (RAS).
11. Identify and monitor performance bottlenecks and resolve configuration problems.

IV. Evaluation

A. Preassessment

None

B. Postassessment

1. There will be three (3) written examinations. The exams are worth 100 points each.
2. Homework assignments will be assigned at the instructor's discretion and will be averaged on a 100-point scale.
3. Lab assignments will be assigned at the instructor's discretion and will be averaged on a 100-point scale.

C. Remediation

The instructor may provide the students with means of improving a grade. The instructor will determine the timing, form, and method of remediation.

D. Final Grade

The final grade report will be based on the percentage of the total points earned.

Percentage	Letter Grade
90 - 100.0	A
80 - 89.99	B
70 - 79.99	C
60 - 69.99	D
0 - 59.99	F

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to

see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.