lEl 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**</u> <u>**Servers**</u>	
COURSE CREDIT HOURS	<u>**3**</u> <u>**3**</u> : <u>**1**</u>	
	Credits **Lec** **Lab**	

I.   Catalog Description

Develops skill*s* necessary to implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. **Prerequisite: ITCC 1301. (3:1). Lab fee.**

II.   Course Objectives

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

A. Identify Windows Server editions, roles, and features.
B. Plan, install, configure, and upgrade Windows Servers with different editions, roles, and features to include file services, firewalls, etc.
C. Utilize PowerShell for basic scripting and configuration tasks.
D. Utilize Remote Management features to communicate with and administer various servers.
E. Explore Windows Server file systems basics and configure and manage disks and storage spaces.
F. Manage hardware devices and configure the Windows Server Environment.
G. Manage and monitor data resources by using NTFS (sharing, permissions, etc.).
H. Provide network access to file resources.
I. Configure printing and print services.
J. Describe the roles of a directory service, domain controllers, replication, and fault tolerance.
K. Plan, design, and install active directory and work with objects such as forests, trees, domains, etc.
L. Examine and change default group policies to manage a business environment.
M. Create and manage active directory organizational units and determine object permissions, effective access, and inheritance.
N. Create and manage user accounts, templates, and properties and manage access to resources by using groups and computer accounts.
O. Automate account management by using the command line interface and script files.
P. Create and enable local and domain Group Policies to secure access, deploy settings and software, and audit objects in a domain environment.
Q. Create, apply, and analyze security templates, settings, and reports.
R. Describe basic Windows Server networking concepts and configure TCP/IP (Transmission Control Protocol/Internet Protocol) and other protocols.
S. Install, configure, monitor, and troubleshoot a DNS (Domain Name Services) server.
T. Install and configure DHCP (Dynamic Host Configuration Protocol).
U. Investigate the process and policies to manage and monitor DHCP (Dynamic Host Configuration Protocol).

V. Create and manage virtualized machines, networks, and hard devices utilizing Windows Server technologies.

W. 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 four (4) written examinations. The exams are worth 100 points each. The final exam will be comprehensive.

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.