El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	<u>**Information Technology Systems**</u>
COURSE RUBRIC AND NUMBER	<u>**ITNW 1353**</u>
COURSE TITLE	<u>**Supporting Network Server**</u> <u>**Infrastructure**</u>
COURSE CREDIT HOURS	<u>**3 3 : 1**</u> **Credits Lec Lab**

I.   Catalog Description

Develops skill*s* in installing, configuring, managing, and supporting a network infrastructure. **Prerequisite: ITNW 1308. (3:1). Lab fee.**

II.   Course Objectives

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

A. Install and configure Windows Server and utilize Virtual Machine technologies.
B. Install and configure Windows Deployment Services and create and manage images.
C. Integrate DHCP services with Windows Deployment Services.
D. Describe usage and install and configure Windows Server Update Services.
E. Provide network access to file resources in a business environment and implement Distributed File System (DFS).
F. Implement security in Windows Server.
G. Monitor and optimize performance and security in Windows Server.
H. Identify Windows Server networking concepts and common networking services.
I. Implement, manage, analyze, and monitor Windows Auditing to improve network security.
J. Enable, configure, and troubleshoot routing and remote access to provide access to mobile workforces and remote offices.
K. Identify uses for VPN's and Direct Access Services.
L. Describe the components of Network Policy Server (NPS) and configure RADIUS (Remote Authentication Dial-In User Service).
M. Examine Active Directory key concepts and components.
N. Install and configure domain controllers.
O. Identify backup, recovery, and maintenance procedures for Active Directory.
P. Configure and install users and service accounts and related policies.
Q. Manage Group Policy settings and preferences and deploy software and scripts.
R. Create, apply, and analyze administrative and security templates and settings.
S. Utilize software tools to configure, test, and troubleshoot scope, precedence, inheritance, and client processing of Group Policy objects.
T. Install, configure, and troubleshoot a DNS (Domain Name Services) server.
U. Explore usage of Powershell scripting commands.

III.   THECB Learning Outcomes (WECM)

1.   Install and configure DHCP, DNS, remote access, network security using public key infrastructure.
2.   Integrate network services.
3.   Deploy operating systems using remote installation services.

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.