

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 Infrastructure</u>
COURSE CREDIT HOURS	<u>3 3 : 1</u> Credits Lec Lab

I. Catalog Description

Develops skills in installing, configuring, managing, and supporting a network infrastructure.
Prerequisite: ITNW 1308. (3:1).

II. Course Objectives

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

- A. Identify Windows Server networking concepts and common networking services.
- B. Configure TCP/IP (Transmission Control Protocol/Internet Protocol) and other protocols.
- C. Describe the four TCP/IP layers, TCP (Transmission Control Protocol) and UDP (User Datagram Protocol) transport layers, and Internet layer protocols.
- D. Install and configure DHCP (Dynamic Host Configuration Protocol).
- E. Manage and monitor DHCP (Dynamic Host Configuration Protocol).
- F. View and configure NetBIOS name resolution using WINS (Windows Internet Naming Service).
- G. Install, configure, and troubleshoot a DNS (Domain Name Services) server.
- H. Install and manage WINS (Windows Internet Naming Service).
- I. Implement, manage, analyze, and monitor IPSec (Internet Protocol Security)
- J. Enable, configure, and troubleshoot Routing and Remote Access Services.
- K. Configure RADIUS (Remote Authentication Dial-In User Service) using IAS (Internet Authentication Service).
- L. Implement and troubleshoot a dynamic routing protocol on Windows Server.
- M. Create, apply, and analyze security templates and settings.
- N. Identify the maintenance cycle and utilize software tools to troubleshoot Windows Server problems.

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.