

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Information Technology Systems</u>
COURSE RUBRIC AND NUMBER	<u>ITCC 2310</u>
COURSE TITLE	<u>Cisco Exploration 4- Accessing the WAN</u>
COURSE CREDIT HOURS	<u>3 3 : 1</u>
	Credits Lec Lab

I. Catalog Description

Explains the principles of traffic control and access control lists (ACLs) and provides an overview of the services and protocols at the data link layer for wide-area access. Describes user access technologies and devices and discover how to implement and configure Point-to-Point Protocol (PPP), Point-to-Point Protocol over Ethernet (PPPoE), DSL, and Frame Relay. WAN security concepts, tunneling, and VPN basics are introduced. Discuss the special network services required by converged applications and an introduction to quality of service (QoS). In addition, the student will prepare for the CCNA exam. **Prerequisite: ITCC 2308. (3:1).**

II. Course Objectives

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

- A. Describe the operations and benefits of virtual private networks (VPN) and tunneling.
- B. Describe the different WAN technologies and their benefits.
- C. Configure and troubleshoot serial connections.
- D. Configure and troubleshoot broadband connections.
- E. Configure and troubleshoot IPSec tunneling operations.
- F. Monitor and troubleshoot network operations using syslog, SNMP, and NetFlow.
- G. Design network architectures for borderless networks, data centers, and collaboration.

III. Evaluation

- The online exams will contribute **10%** to the final grade.
- The assigned labs will contribute **10 %** to the final grade.
- The final exam will contribute **35%** to the final grade.
- The Hands-On Skills Final Exam will contribute **45%** to the final grade.
- You are required to take both the Hands-on Skills Final and the Online Final. Missing either will result in failing the course.

PERCENTAGE	LETTER GRADE
90 –100	A
80 – 89.99	B
70 – 79.99	C
60 – 69.99	D
0 – 59.99	F

IV. 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).

V. 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.