

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Information Technology Systems</u>
COURSE RUBRIC AND NUMBER	<u>ITCC 2313</u>
COURSE TITLE	<u>CCNA 4: Connecting Networks</u>
COURSE CREDIT HOURS	<u>3 3 : 1</u> Credits Lec Lab

I. Catalog Description

WAN technologies and network services required by converged applications in a complex network; enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. **Prerequisite: ITCC 2312. (3:1). Lab fee.**

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. Backup Network devices.
- H. Implement TAP controls.
- I. Document network topology.

III. THECB Learning Outcomes (WECM)

1. Configure and troubleshoot network devices Resolve common issues with data link protocols
2. Resolve common issues with OSPF, EIGRP, and STP in both ipv4 and ipv6 networks
3. Implement virtual private network (VPN) operations in a complex network
4. Implement security best practices

IV. 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

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.