

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Information Technology Systems</u>
COURSE RUBRIC AND NUMBER	<u>ITSY 2300</u>
COURSE TITLE	<u>Operating System Security</u>
COURSE CREDIT HOURS	<u>3 3 : 1</u> Credits Lec Lab

I. Catalog Description

Provides instruction in how to safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identifies security threats and monitor network security implementations. Uses best practices to configure operating systems to industry security standards.

Prerequisite: ITSC 1301. (3:1).

II. Course Objectives

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

- A. Describe network security risks
- B. Identify proper security design
- C. Discuss monitoring solutions
- D. Identify sources of computer threats
- E. Evaluate potential practices to protect network systems
- F. Evaluate tools to protect network systems
- G. Evaluate technologies to protect individual network systems
- H. Establish an operating system security plan
- I. Utilize system and application security tools
- J. Implement procedures to secure network systems
- K. Monitor and evaluate audit logs
- L. Set system administrator alerts
- M. Develop an organizational operating system security plan
- N. Evaluate security policies and procedures
- O. Establish users lists
- P. Install software updates and patches

III. THECB Learning Outcomes (WECM)

- 1. Identify network security risks, security design, and monitoring solutions.
- 2. Identify sources of computer threats, evaluate potential practices, tools, and technologies to protect individual network systems.
- 3. Establish and sustain an operating system security plan utilizing systems and application security tools.
- 4. Implement procedures to secure and monitor audit logs and set system administrator alerts.
- 5. Develop an organizational operating system security plan that provides for periodic reviews of security policies, procedures, authorized users list, and software update patches.

IV. Evaluation

- Six exams will contribute 35% to the final grade.
- Eight assignments and eight quizzes will contribute 25 % to the final grade.
- A comprehensive final exam will contribute 40% to the final grade.

The final grade will be based on the percentage of total points earned:

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 (American 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.