# 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. **(3:1). Lab fee.**

## 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
Q.  Apply configuration management tools and processes.
R.  Design, execute, test, review and maintain a solution.
S.  Practice physical security.
T.  Identify and follow disaster and recovery protocol.
U.  Utilize encryption tools.

## 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 (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.