El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA | **Information Technology Systems**

COURSE RUBRIC AND NUMBER | **ITSC 1305**

COURSE TITLE | **Introduction to PC Operating Systems**

COURSE CREDIT HOURS

3	3 : 1
Credits	Lec Lab

I.   Catalog Description

Studies the introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. **(3:1).**

II.   Course Objectives

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

A.   Identify the operating system's functions, structure, and major system files in order to navigate the operating system to diagnose problems and maintain system performance.

B.   Identify basic concepts and procedures for creating, viewing, and managing files and directories, including procedures for changing file attributes and the ramifications of those changes (e.g., security issues).

C.   Identify the procedures for basic disk management and backups.

D.   Explain skills needed in the I.T. profession to include problem solving, troubleshooting, remote troubleshooting, and adherence to laws, regulations, and company policies, etc.

E.   Identify the procedures for installing current and legacy Windows Operating Systems for bringing the software to a basic operational level.

F.   Identify steps to perform an operating system upgrade.

G.   Identify the basic system boot sequences and boot methods, including the steps to create an emergency boot disk with utilities installed for current and legacy Windows Operating Systems.

H.   Recognize and interpret the meaning of common error codes and startup messages from the boot sequence and identify steps to correct the problems.

I.   Identify procedures for loading/adding and configuring device drivers, applications, and the necessary software for certain devices.

J.   Identify the networking capabilities of Windows, including procedures for connecting the network plus concepts and capabilities relating to the Internet and basic procedures for setting up a system for Internet access.

K.   Configure various mobile operating systems for devices such as tablets and smart phones.

L.   Identify potential security hazards and investigate methods to diagnose, resolve, document, and report security issues.

.Revised by Discipline: Fall 2012 (next revision in 3 years)

M. Identify basic terms, concepts, and functions of hardware system modules and how each module should interact with operating system software during normal operation.
N. Identify basic procedures for adding and removing field replaceable modules for both desktop and portable systems, including storage, memory and peripheral devices.
O. Identify procedures and devices for protection within the computing environment, including people, technology, and the eco-system.
P. Identify the most popular types of motherboards and their architecture (e.g., bus structures and power supplies).

III.   THECB Learning Outcomes (WECM)

1.   Assemble/setup and upgrade personal computer hardware.
2.   Diagnose and isolate faulty hardware components.
3.   Install, configure, and maintain the operating system.
4.   Perform basic file management operations.
5.   Organize and allocate primary and secondary storage.
6.   Access and control peripheral devices.
7.   Run utilities.

IV.   Evaluation

A. Preassessment

   None

B. Postassessment

   This course will contain lab assignments and exams. The instructor will determine the mix of lab assignments and exams to arrive at a grade as described in the Instructor's Course Requirements document.

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.
   90 – 100   = A
   80 – 89.99   = B
   70 – 79.99   = C
   60 – 69.99   = D
   0 – 59.99   = F
   Incomplete   = I
   Withdraw   = W

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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.

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