

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Information Technology Systems</u>
COURSE RUBRIC AND NUMBER	<u>ITSY 2343</u>
COURSE TITLE	<u>Computer System Forensics</u>
COURSE CREDIT HOURS	<u>3 3 : 1</u> Credits Lec Lab

I. Catalog Description

Provides an in-depth study of system forensics including methodologies used for analysis of computer security breaches. Gathers and evaluates evidence to perform postmortem analysis of a security breach. Students should have an understanding of basic computer hardware. **Prerequisite: ITSC 1301. (3:1).**

II. Course Objectives

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

- A. Define computer forensics and investigation.
- B. Outline the procedures and documentation for a forensic environment.
- C. Explain the role of and employ investigation in computer forensic analysis.
- D. Implement common investigative plan(s).
- E. Utilize the Windows environment and other DOS-based systems and describe the recovery of image files on an evidence disk.
- F. Identify Macintosh and LINUX boot processes, disk structures, and forensic tools to perform data acquisition from computer drives.
- G. Record digital evidence controls within a crime scene and secure the evidence within investigative office and laboratory environments.
- H. Describe crime process, incident scenes, and warrant procedures of a typical computing-forensics case as related to the investigation of Internet fundamentals and examination of email crimes and violations.
- I. Prepare analytical reports for formal and informal settings and discuss the process of becoming an expert forensic witness and certification in forensic studies.

III. THECB Learning Outcomes (WECM)

1. Identify computer investigation issues.
2. Identify legal issues associated with computer investigations.
3. Collect and document evidence.
4. Evaluate network traffic, and evaluate recovered remnant or residual data.

IV. Evaluation

- A. Pre-assessment

Students must have taken and completed ITSC 1301 (CISC 3101), "Introduction to Computers and Applications," prior to taking this course.

B. Post-assessment

This course will contain lab assignments and exams. The instructor will determine the mix of these 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 class, as opposed to individuals, with the means of improving a grade. The instructor will determine the timing, form, and method of remediation.

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.