

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: ITN 276

Credits: 3

Course Title: Computer Forensics I

Course Description: Teaches computer forensic investigation techniques for collecting computer-related evidence at the physical layer from a variety of digital media (hard drives, compact flash and PDAs) and performing analysis at the file system layer. Prerequisite: ITE 221, or ITN 106 and ITN 107. Co-requisite: ITN 260. Credit will be given to ITN 275 or ITN 276 and ITN 277, but not all three courses. Lecture 3 hours per week.

General Course Purpose: This course is designed to train computer technicians in the elements of computer forensics investigation.

Course Prerequisites and Co-requisites:

Prerequisite: ITE 221, or ITN 106 and ITN 107

Co-requisite: ITN 260

Credit will be given to ITN 275 or ITN 276 and ITN 277, but not all three courses.

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Collect digital evidence on a variety of computer systems using accepted forensic processes;
- b. Understand and correctly use court-accepted imaging and analysis tools; and
- c. Operate under the legal challenges to collecting and analyzing digital evidence.

Major Topics to Be Included:

- a. Understanding computer forensics
- b. Legal issues in computer forensics
- c. Preparing for an investigation
- d. Security, a system for investigation
- e. Evidence preparation
- f. Analyzing and understanding file systems
- g. Data acquisition at a physical layer
- h. Analyzing data
- i. Recovering deleted and encrypted data from a file system
- j. Cataloging and storing digital evidence

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