

ARIZONA WESTERN COLLEGE
SYLLABUS

CIS 171 COMPUTER FORENSICS AND INVESTIGATIONS

Credit Hours: 3 Lec: 2 Lab: 2

PREREQUISITE: CIS 120

COURSE DESCRIPTION

Introduction to digital forensic principles including the collection, preservation, analysis of digital evidence, legal considerations, digital evidence controls, and the documentation of forensic analysis.

1. COURSE GOAL

Apply principles, mechanisms, and implementations of computer forensics and investigations.

2. OUTCOMES

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

- 2.1 describe the attributes of file systems and storage media.
- 2.2 identify potential sources of electronic evidence.
- 2.3 describe the importance of maintaining the integrity of digital evidence.
- 2.4 demonstrate the ability to perform basic forensic data acquisition and analysis using computer and network-based applications and utilities.
- 2.5 demonstrate the ability to accurately document forensic procedures and results.
- 2.6 identify career opportunities for digital forensic professionals.
- 2.7 demonstrate the ability to conduct research to develop an in depth understanding of a topic relating to digital forensics.

3. METHODS OF INSTRUCTION

- 3.1 Lectures
- 3.2 Lab creations and exercises
- 3.3 Discussions
- 3.4 Individualized instruction
- 3.5 Feedback on labs, assignments, and exams

4. LEARNING ACTIVITIES

- 4.1 Take notes during lectures
- 4.2 Participate in class and group exercises
- 4.3 Complete lab assignments
- 4.4 Review incorrect answers to questions on quizzes and exams
- 4.5 Take part in class discussions
- 4.6 Read assigned chapters and do software application exercises
- 4.7 Analyze feedback and apply to future learning situations
- 4.8 Ask questions if concepts are not understood

5. EVALUATION

- 5.1 Exams
- 5.2 Assigned projects and lab assignment
- 5.3 Quizzes

6. STUDENT RESPONSIBILITIES

- 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
- 6.2 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course will be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
- 6.3 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
- 6.4 Academic Integrity: Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
- 6.5 Texts and Notebooks: Students are required to obtain the class materials for the course.