

The Center for Infrastructure Assurance and Security

Introduction to Digital Forensics

About Us

The CIAS was formally launched in 2001 through a cooperative effort of representatives from industry, government, and academia. We are designed to leverage the Infrastructure Assurance and Security (IAS) strengths resident in San Antonio, Texas as part of the solution to the nation's Homeland Security.

The CIAS has developed a robust set of Security Training courses designed to address security issues from the beginner to the IA professional. These courses are ready for delivery and can be customized to meet an organization's unique cyber security needs. Our instructors are highly qualified and maintain currency in the security field. Our capabilities include an onsite classroom located at the CIAS facility and a mobile classroom available for training at your location.

For more information about the CIAS, please visit our web site:
<http://www.utsa.edu/cias>

Contact

Jenine Stevenson
Program Coordinator
210.458.2185
210.632.6597
Jenine.Stevenson@utsa.edu

Overview

This 5-day lecture and hands-on training course provides an introduction to digital forensics. The lectures cover a full range of forensics practices, techniques, and issues, while the practical exercises reinforce concepts and provide experience in the use of forensics tools. Students attending this course receive a Certificate of Completion.

Audience

Professionals who are looking for an integration of forensics, investigative methodology, and legal issues or who want to understand the technical side of digital forensics should attend.

Prerequisites

Computer literacy is required. Students should be familiar with a windowed Graphical User Interface (GUI) computing environment. Some knowledge of system administration, file systems, networking and TCP/IP is beneficial.

Course Materials

Lecture, practical exercises, and reference materials are provided.

Course Contents

- Concepts of Computer Security
- Security Incidents and Computer Forensics
- Incident Response and the Role of Digital Forensics in the Investigation Process
- Legal Issues, Context, and Digital Forensics
- Principles of Digital Forensics
- Data Collection and Duplication Procedures
- File Systems
- System Logs
- Image Files and Multimedia Files
- Forensic Tool Kits
- Network Forensics
- Digital Forensics Procedures and Best Practices
- Developing the Report
- Other Applicable Topics