

# DOWNLOAD PDF COMPUTER SECURITY LAB MANUAL (INFORMATION ASSURANCE SECURITY)

## Chapter 1 : UC Davis Computer Security Lab

*This lab manual provides a host of hands-on exercises that are the perfect supplement to your computer security textbook. Over 40 lab projects build from basic networking skills to identification of vulnerabilities, hardening of computer systems, and detection and incident response.*

Introduction to the practice of information technology auditing. An emphasis is placed on information technology auditing standards and methodology, as well as guidance on auditing general computer controls and application controls. Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse--its origins, perpetration, prevention, and detection. Digital media forensics addresses all stored digital evidence types faced by cyber security professionals and computer forensics examiners. Students will learn to analyze character encoding, file formats, and digital media, including hard drives, smartphones and other portable devices, and cloud-hosted evidence, as well as disk acquisition, duplication and evidence preservation techniques and how to apply these techniques in typical criminal investigation scenarios. Digital Media Forensics Lab. Conventional network security symmetric and public-key cryptography. Message encryption and authentication. Mandatory weekly Linux-based lab. Theory and practices of modern cryptographic techniques, algorithms and protocols, including formal analysis. Secret key encryption algorithms, public key encryption algorithms, stream ciphers, one-way hashing algorithms, authentication and identification, digital signatures, signcryption, key establishment and management, secret sharing and data recovery, zero-knowledge proofs, public key infrastructures, efficient implementation, cryptanalytic attacks and countermeasures, security models, assumptions and proofs. Fundamental principles of digital cash systems including Bitcoin, Ripple and other notable cryptocurrencies. Topics to be covered include how a cryptocurrency works, blockchain and other decentralized consensus protocols, proof of work, proof of stake, security and privacy of cryptocurrencies, cryptographic techniques for digital currency, and applications of blockchain in peer-to-peer trust establishment, smart contracts, digital asset management, financial exchanges and distributed autonomous organization. Hands-on course teaching static, dynamic and contextual analysis of malware. Malware analysis and reverse-engineering techniques are taught through interaction with both "classroom" and "wild" malware samples. Defensive and counter-measure techniques for both corporate and law enforcement environments are explored. Penetration Testing and Vulnerability Assessment. This course focuses on penetration testing and vulnerability analysis. It introduces methodologies, techniques and tools to analyze and identify vulnerabilities in stand-alone and networked applications. It also covers methodologies for legal and standards compliance. This course develops knowledge and skills in risk based information security management geared toward preventive management and assurance of security of information and information systems in technology-enabled environments. It focuses on risk assessments, risk mitigation strategies, risk profiling and sensitivity, quantitative and qualitative models of calculating risk exposures, security controls and services, threat and vulnerability management, financing the cost of security risks, and return on investment for information security initiatives. The course presents several risk assessment models with an ultimate goal of identifying and realizing the unique and acceptable level of information risk for an organization. Legal Elements of Fraud Investigation. Key legal principles and courtroom procedures relevant to forensic accounting, and survey of related topics--criminology theories, evidence management, and litigation services. Ethics and Computer Forensics. Overview of different systems of ethics; the role of ethics in computer forensics, cybercrime investigation, and information security; examination of ethical issues facing professionals involved in computer forensics, cybercrime investigation, and information security. Introduction to cyber investigative techniques, involving focused analysis of email and websites; examination of legal process and preparing evidence in cyber crime cases. Law Evidence and Procedure. Overview and examination of the legal aspects of physical evidence, including rules of evidence, procedural rules, and the role of expert witnesses. Graduate Internship in Criminal Justice. Field experience in criminal justice agency

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## Chapter 2 : Program: Information Assurance and Computer Security, M.S. - Dakota State University - Aca

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## Chapter 5 : CSSIA NSF ATE Center

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*This lab manual provides a host of hands-on exercises that are the perfect supplement to your computer security textbook. Over 40 lab projects build from basic networking skills to identification of vulnerabilities, hardening of computer systems, and detection and incident response. This book.*

## Chapter 7 : Network Security Lab Experiments

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