

CIS 349 – Information Technology Audit and Control

Course Description

This course covers the principles, approaches and methodologies in auditing information systems to ensure the processes and procedures are in compliance with pertinent laws and regulatory provisions especially in the context of information systems security (ISS). Topics include the processes used to protect and secure business and consumer privacy data, an explanation of compliancy laws, and the process and legal requirements for conducting IT infrastructure compliance audits.

Instructional Materials

Weiss, M. W., & Solomon, M. G. (2011). *Auditing IT Infrastructures for Compliance*. Sudbury, MA: Jones & Bartlett Publishers.

Course Learning Outcomes

1. Describe the role of information systems security (ISS) compliance and its relationship to U.S. compliance laws.
2. Explain the use of standards and frameworks in a compliance audit of an IT infrastructure.
3. Describe the components and basic requirements for creating an audit plan to support business and system considerations.
4. Develop IT compliance audit plans.
5. Describe the parameters required to conduct and report on IT infrastructure audit for organizational compliance.
6. Analyze information security systems compliance requirements within the User Domain.
7. Analyze information security systems compliance requirements within the Workstation and LAN Domains.
8. Design and implement ISS compliance within the LAN-to-WAN and WAN domains with an appropriate framework.
9. Explain information security systems compliance requirements within the Remote Access Domain.
10. Explain information security systems compliance requirements within the System / Application Domain.
11. Summarize the qualifications, ethics, and certification organizations for IT auditors.
12. Use technology and information resources to research issues in security strategy and policy formation.
13. Write clearly and concisely about topics related to information technology audit and control using proper writing mechanics and technical style conventions.