

# COMPUTER INFORMATION SYSTEMS (CISA)

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## CISA 5309 Computer Tech Applications

**Credits:** 3 (3-0-0)

Study of databases, enterprise systems, decision support systems, business intelligence, and IS security from a managerial standpoint. The course provides insights on systems used for collecting data to assist with operational and strategic decision making.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5310 Org & Mgmt of Bus Databases

**Credits:** 3 (3-0-0)

A study of important issues in the design and implementation of databases for business enterprises with emphasis on the relational model. Study of non-relational database models such as object-oriented, hierarchical and network. Hands-on experience will be provided using a current relational database product.

**Prerequisites:** CISA 5309 or permission of the instructor.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5311 Project Management

**Credits:** 3 (3-0-0)

This course examines the concepts, principles, and applications of project management in the business environment, including the study of project management procedures, project management tools, organizational structure, management of project team members, and the planning, organizing, and control activities necessary for good project. Cross-listed with MGMT 5311.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5312 Risk Management

**Credits:** 3 (3-0-0)

This course is an overview of the basic components of risk as they pertain to technical projects. Topics include risk identification, risk impact analysis, risk response planning, mitigating risk, and risk management techniques. Cross-listed with MGMT 5312.

**Prerequisites:** CISA 5311 or MGMT 5311.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5320 Decision Support Systems

**Credits:** 3 (3-0-0)

A study of computer-based systems that support unstructured and semi-structured decision-making by individuals or groups. These systems include: decision support systems, group decision support systems, executive information systems, and expert systems.

**Prerequisites:** CISA 5309 or permission of the instructor.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5321 Information Security

**Credits:** 3 (3-0-0)

This course is an overview of the basic components of risk as they pertain to technical projects. Topics include risk identification, risk impact analysis, risk response planning, mitigating risk, and risk management techniques. Prerequisite CISA 5330 or undergraduate equivalent in telecommunications or computer networks.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5322 Information Policy Assurance

**Credits:** 3 (3-0-0)

This course explores information security policies. The course includes both sociological and psychological issues in policy implementation in general, a dialogue on information security specific policies, the structure of a policy, and the lifecycle of policy from creation to enactment. The course also exposes the student to issue specific policies in different domains of security to assist the students learn in context of real life situations.

**Prerequisites:** CISA 5330 and CISA 5321.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5323 Computer Forensics

**Credits:** 3 (3-0-0)

This course is an overview of the methods and tools utilized for collecting and preserving electronic digital evidence for the computer forensic process. Topics include the forensic examination, analysis, and report writing; and preparing for courtroom testimony about the forensic results.

**Prerequisites:** CISA 4321 or CISA 5321.

**Restrictions:** Graduate level students may not enroll.

## CISA 5324 Risk Analysis

**Credits:** 3 (3-0-0)

This course examines concepts of risk analysis, risks in engineered systems, environmental risks, security risks; methods of risk analysis, fault trees and event trees; quantification of probabilities, use of data, models, and expert judgements; risks and decisions, interlinking risk analysis with risk management; applications to homeland security decisions.

**Prerequisites:** CISA 4306 or CISA 5330.

**Restrictions:** Enrollment is limited to Graduate level students.

## CISA 5325 Network Security

**Credits:** 3 (3-0-0)

The course explores mechanisms for protecting networks against attacks with an emphasis placed on network security applications for the Internet and corporate networks. The course also investigates various networking security standards and explores methods for enforcing and enhancing those standards.

**Prerequisites:** CISA 4306 or CISA 5330.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5326 Security and Operations Practicum****Credits:** 3 (3-0-0)

This course combines the theoretical foundation of system security with hands-on practical application on real systems. Students will practice roles of network and system administrators and system architects from both security and business operations perspectives. In addition, students will design and build a small network with DMZ and internal subnet systems.

**Prerequisites:** CISA 5330 or undergraduate equivalent in telecommunications or computer networks, CISA 5321, and CISA 5324 or CISA 5325.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5330 Telecommunications****Credits:** 3 (3-0-0)

A study of concepts, principles, and technologies allowing the integration of information and telecommunications systems to support the internal and external activities of business enterprises.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5331 Enterprise Rsrce Planning Sys****Credits:** 3 (3-0-0)

This course exposes students to complex issues with enterprise resource planning (ERP) system development and operation. Students explore ERP technology and life cycle planning, business process redesign, process mapping, and risk management and security in ERP systems. Students will develop skills in an ERP system such as SAP. Cross-listed with ACCT 5307.

**Prerequisites:** A grade of "B" or better in each of: MATH 2314, CSCI 1437, 2436 or equivalents as determined by the program graduate coordinator.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5332 Business Intelli/ Data Mining****Credits:** 3 (3-0-0)

This course provides an integrative foundation in the field of business intelligence and data mining. It focuses business data warehousing multidimensional data modeling, online analytic processing, business reporting and planning, data mining, along with other advanced topics relevant to the field of business intelligence.

**Prerequisites:** CISA 5309.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5333 Supply Chain Integration****Credits:** 3 (3-0-0)

Supply chain management is the successful cross-functional integration of key business processes from the original suppliers of products, services, and information through the firm to its customers and stakeholders with an emphasis on value-added benefits. This course emphasizes the use of information technology in the supply chain management process. Cross-listed with MGMT 5333.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5334 Business Process Integration****Credits:** 3 (3-0-0)

The course provides a foundation for information system professionals who are often called upon to configure and integrate business processes. Information system professionals are often called upon to install and configure computer information systems including packages such as SAP. They must also demonstrate an understanding of how data is shared throughout the organization. This course helps students understand the key processes of business organizations. It also improves the student's understanding of how key business processes are managed and integrated in enterprise level software used by large organizations.

**Prerequisites:** CISA 5309 and CISA 5331.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5340 Sys Analysis Design & Impl****Credits:** 3 (3-0-0)

A study of systems analysis, design and implementation techniques that can be used to analyze and improve or create organizational information and communications systems.

**Restrictions:** Enrollment is limited to Graduate level students.

**CISA 5359 Spec Prob in Computer Info Sys****Credits:** 3 (3-0-0)

Study, research or internship in CISA. May be repeated once for credit.

**Restrictions:** Enrollment is limited to Graduate level students.

**Repeat Status:** Course may be repeated 1 time(s).