

CISM Computer Infor Systems

CISM 1110 Computer Applications

1 Credit Hour. 0 Lecture Hours. 1 Lab Hour.

Provides lecture and detailed instruction in application software using word-processing, spreadsheets, database and presentation software.

Corequisite(s): CISM 1120.

CISM 1120 Computer Concepts

2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Provides an introduction of computer concepts and the evolution of computers in society. Lecture topics include computer system components, data representation & storage, software & multimedia, computer architecture, data communications & network configuration, data security & privacy, viruses, ethic, email, Internet, and the computer marketplace.

CISM 1130 Computers and Applications

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

CISM 1131 Computer Survival Skills

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides a survey and instruction in the use of modern systems and applications software routinely used in personal, academic, and organizational computing. The purpose of the course is to aid students in becoming familiar and proficient in using common software and Internet tools. The topics address a wide variety of software available to manage personal computers; create, format, edit, convert, acquire, distribute and manage various PC and Internet file types; use and manage Web-based communications like email, FTP, IM, Chat and Blogs; effectively and efficiently use the Internet to search, acquire, research and manage Web-based content, data, and information; use established informational Web-sites for research. Other topics include PC and Internet security and risks, and recent developments in technologies and software that affect the typical computer user. This course is not a substitute for either CISM 1110, CISM 1120, or CISM 2530.

CISM 2030 Introduction to Business Programming

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of fundamental Information Systems concepts and career opportunities. Students are introduced to the characteristics of business process, enterprise systems, and SAP ERP. Students use the Alice 3D visual programming environment and Java standard edition software to learn fundamental object oriented programming concepts.

CISM 2230 Advanced Java

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course extends the fundamental principles of object-oriented programming using Java as our tool. The focus of this class is on advanced applications development. Topics include: objects, classes, inheritance, interfaces, GUI components, layout managers, events, multimedia, exception handling, and I/O files.

Prerequisites: A "C" or better in CSCI 1236 (or equivalent) and a solid understanding of data types, control structures, and algorithm design.

CISM 2530 Advanced Business Applications

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide students with hands-on experience in creating advanced business applications using spreadsheet and database management system (DBMS) tools. Advanced topics in word-processing and presentation tools will also be explored.

CISM 3131 Management Information Systems

3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

An overview of the utilization of information technology in business organizations to support managerial decision making and to provide competitive advantage. This course will address the evolution of information and information technology as corporate assets, how information technology is reshaping organization structures and work processes, how it is changing business relationships among organizations, and emerging information technologies expected to significantly impact business operations in the years ahead.

Prerequisite(s): A minimum grade of "C" in all of the following: CISM 2530 and ACCT 2101 or ACCT 2030 and Sophomore standing.

CISM 3133 Database Management

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An applied study of business databases, their design, and implementation. The focus of the course is on application development with fourth generation systems. Applications using a third generation host language and application generators are used to demonstrate concepts and techniques.

Prerequisite(s): A minimum grade of "C" in CISM 2530 and Junior standing.

CISM 3134 Enterprise Infrastructure and Security

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of the technology and management of the components that comprise today's enterprise IT infrastructure, including its hardware, software, and networks. The course covers network architectures and protocols for the Internet including mobile and cloud computing, and discusses the pertinent security considerations.

CISM 3135 Enterprise Systems Analysis and Design

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an introduction to traditional and object-oriented analysis and design methods to solve business problems. Students will apply data and process modeling techniques to analyze the existing enterprise systems. The physical design will be performed by designing a customization to existing enterprise systems. Pre-requisite: A minimum grade of "C" in the following: CISM 3333 and CISM 3133 and Junior standing.

CISM 3237 Visual Basic.Net Windows and Web Applications Programming

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to Visual Basic.Net which is a leading edge object oriented programming language that integrates with .Net platform to provide a programming component for Windows applications, as well as Internet and World-Wide-Web applications. The student will be exposed to and learn topics related to object oriented programming, strings, graphics, graphical-user-interface components, exception handling, multithreading, multimedia (audio, images, animation and video), file processing, prepackaged data structures, database processing, Internet and World-Wide-Web based client/server networking and distributed computing.

Prerequisite(s): CISM 2230.

CISM 3331 Principles of Enterprise Information Systems Security

3 Credit Hours. 0,2 Lecture Hours. 0,1 Lab Hours.

An introduction to the various policy, administration, management, and technical aspects of information systems security across the enterprise. This course provides the foundation for understanding key policies and issues associated with protecting information assets; designing a consistent, reasonable information security system; identifying alternatives for determining the necessary levels of protection; and developing and administering appropriate responses to security incidents. Included are design issues for appropriate intrusion detection, disaster incidents, and reporting for various enterprise networking infrastructures.

Prerequisite(s): A minimum grade of "C" in CISM 3134.

CISM 3333 ERP Systems Using SAP**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on Enterprise Planning (ERP) using SAP R/3. Students will spend computer intensive time navigating in SAP and completing SAP lab assignments. Currency in ERP developments by subscribing to Internet newsletters on ERP or SAP developments is required. Students will also be required to complete a major ERP project and give a presentation on important recent ERP developments.

Prerequisite(s): A minimum grade of "C" in ACCT 2101 or ACCT 2030.

CISM 4135 Project Management and Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course focuses on principles and processes of project management, specifically as they relate to the development of information systems to solve business problems. The fundamentals of organizational behavior, systems theory and systems dynamics, as well as the important components of project management such as planning, organizing, directing, and controlling are covered. In addition, team building and working with others is emphasized to improve efficiency and effectiveness. The students will have an opportunity to work with current Project Management software tools to emphasize the application of these concepts.

Prerequisite(s): A minimum grade of "C" in CISM 3135 and Junior standing.

CISM 4136 Global Information Resource Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the international management of the organization's information systems function from the perspective of information as a critical organization resource and as a key to competitiveness in the global market. Emphasis will be placed on the application of technology to meet information systems requirement.

Prerequisite(s): A minimum grade of "C" in CISM 3134 and CISM 3135.

CISM 4237 Business Intelligence**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to business intelligence and business analytics. Students will be exposed to recent technological developments in these areas, as well as best practices.

Prerequisite(s): A minimum grade of "C" in CISM 2530 and junior standing; or a minimum grade of "C" in IT 3233.

Cross Listing(s): CISM 4237H.

CISM 4238 Network Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An applied study of the problems inherent in the maintenance and management of the heterogeneous networking environments prevalent in the modern business enterprise. Emphasis will be placed on acquiring and integrating the practical management/technical skills that define the effective networking specialist.

Prerequisite(s): A minimum grade of "C" in CISM 3134.

CISM 4239 Advanced Business Analytics with SAP HANA**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course covers advanced practices and concepts in the areas of business intelligence and business analytics. The course will emphasize more the data foundation required to support business intelligence and business analytics, rather than associated applications. Special emphasis will be given to the SAP HANA big data platform.

Prerequisite(s): A minimum grade of "C" in CISM 4237 and CISM 3133 or IT 3233.

CISM 4332 Electronic Business**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the linkage between organizational strategy and networked information technologies to implement a rich variety of business models in national and global contexts connecting individuals, business, governments, and other organizations to each other. The course examines e-business strategy and the development and architecture of e-business solutions and their components.

Prerequisite(s): CISM 2230 and CISM 3134, MKTG 3131.

CISM 4333 Human Resource Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, and ensure compliance with employment law. The focus will be on merging computer technology with a strategic human resource management perspective.

Prerequisite(s): A minimum grade of "C" in MGNT 3334.

CISM 4335 Advanced Business Applications Programming (ABAP) for the SAP/ERP System**3 Credit Hours. 2 Lecture Hours. 1 Lab Hour.**

This course provides an overview of the ABAP programming language for the SAP enterprise resource planning system. Students will learn how to access database tables, design input screen selections and generate output list reports. Students will write a variety of beginning and intermediate level programs using the ABAP workbench, ABAP objects, and data dictionary tools. Modular programming technique such as subroutines, function modules, and events will also be discussed.

Prerequisite(s): A minimum grade of "C" in all of the following: CISM 2030, CISM 3333 and prior or concurrent enrollment in CISM 3133 or IT 3233.

CISM 4336 ERP and Enterprise Performance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of Enterprise Resources Planning (ERP) systems and their impact on organizations. Organizational interest in integrated enterprise information systems and the factors that drive businesses to select and implement these solutions are addressed. Research evidence demonstrating the impact of ERP systems on enterprise performance is reviewed and students gain further understanding of the integrative nature of ERP systems by completing exercises using simulated ERP environments.

Prerequisite(s): A minimum grade of "C" in ACCT 2101 or ACCT 2030.

CISM 4434 Enterprise System Configuration**3 Credit Hours. 0,2 Lecture Hours. 0,1 Lab Hours.**

This course focuses on configuring and testing an Enterprise Resource Planning (ERP) system for use in a large organization. Students learn how to setup a trading company from the ground up using SAP R/3. Throughout the semester, students will create and test the organizational structure, master data and business rules to integrate different functional business processes such as purchasing, sales, distribution, logistics, accounts payable, accounts receivable, etc. Students can also be expected to complete a major project working in cross-functional teams to configure and test an ERP system.

Prerequisite(s): A minimum grade of "C" in CISM 3333.

CISM 4435 ERP Web Portal Customization and Collaboration using SAP NetWeaver**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on how and why web-based ERP systems such as SAP Enterprise Portals are customized to extend their support of business processes. The course applies web portal customization and collaboration tools to illustrate key course concepts. The characteristics and benefits of enterprise web portals are examined along with the tools and processes used to implement and measure their success.

Prerequisite(s): A minimum grade of "C" in CISM 3333.

CISM 4436 SAP TERP10 Review**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is a preparation course for the TERP10 SAP Academy Certification. Recommended for students who have completed 2 or more SAP approved courses toward earning their SAP Certificate.

Prerequisite(s): A minimum grade of "C" in ACCT 2101, ACCT 2030, CISM 3333, CISM 4336 and CISM 4434.

CISM 4437 Data Mining for Business Analytics**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Basic data mining techniques as applied within a business context. The following topics will be covered: predictive modeling, classification, pattern detection, clustering, and text and web mining.

Prerequisite(s): A minimum grade of "C" in BUSA 3131.

CISM 4790 Internship in Information Systems**3,6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work-study program in selected business firms throughout the southeast.

Prerequisite(s): Minimum institution GPA of 2.5 and permission of Department Chair or Internship Director.

CISM 4830 Special Problems in Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A customized course that is under the direction of a faculty sponsor. This course is designed to offer students an opportunity to pursue studies or topics not covered in scheduled courses. The scope and nature of the material covered is determined in consultation with the faculty sponsor.

Prerequisite(s): Senior standing.

CISM 4890 Directed Study in Information Systems**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Designed for independent study and research in selected areas of information systems under faculty supervision.

Prerequisite(s): Permission of Department Chair.

CISM 6120 Technology for Executives**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Examines the role of information technology (IT) in business and how IT is used to solve business problems. Fundamental grounding in key areas of IT (hardware, software, data resources, and networks) is provided, with the emphasis on how IT affects an organization, its employees and its competitive position. The challenges and opportunities related to networked enterprises and global markets are also explored. A variety of software tools are used to create solutions to traditional business problems, with the focus on the application of problem solving and critical thinking skills, rather than the achievement of computer literacy.

CISM 7030 Special Topics in Information Systems**3 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.**

Provides the student with an opportunity for in-depth study of selected topics in Information Systems.

CISM 7131 Survey of Digital Forensics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will survey the current digital environment as it relates to financial and business fraud. Topics will include a survey of the forensic investigative process for digital evidence, case studies of investigations where proper data handling and analysis resulted in positive investigative results, an overview of best practices for evidence presentation, and analysis of current events and investigations from open sources.

Prerequisite(s): Admission to the MAcc Program and permission of SOA director.

CISM 7231 ERP Business Process Analysis Using SAP**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Many business organizations have adopted enterprise resource planning (ERP) systems, such as SAP, to provide a platform for supporting and integrating core business processes such as accounting and finance, procurement, production planning, material management, and sales and distribution. This course focuses on Enterprise Resource Planning (ERP) systems and utilizes SAP to illustrate how ERP systems are employed in business organizations to support business processes. At the end of the course, students will have an overview of ERP characteristics, components and benefits; they will be familiar with the SAP graphical user interface (GUI) and navigation.

Prerequisite(s): Graduate standing and permission of Director of Graduate Programs for COBA.

CISM 7235 ERP Customization for SAP**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course focuses on how and why ERP systems are customized to extend their support business processes and employs SAP customization tools to illustrate key course concepts. The characteristics and benefits of enterprise portals are examined along with the tools and processes used to implement and measure their success.

CISM 7330 Information Technology Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to enable the manager to effectively utilize and manage information technology in the applied business environment. The course focuses on the managerial, not the technical aspects of information management. No prior technical expertise is required. Relevant readings and cases are used to apply the concepts and techniques presented in the course.

Prerequisite(s): Graduate standing and permission of Director of Graduate programs for COBA and prior or concurrent enrollment with a minimum grade of "C" in MGNT 7331.

CISM 7331 Enterprise Systems Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes the methods, techniques, and tools of analyzing and designing an enterprise information system. Topics include design methodologies, data collection and analysis techniques, and design tools. Students will analyze problems of the current enterprise system, propose alternatives to resolve the problems, and implement their design to change/replace the current system. The implementation will be supported by modern enterprise resource planning tools: such as SAP R/3.

Prerequisite(s): Graduate standing and permission of Director of Graduate programs for COBA; prior or concurrent enrollment with a minimum grade of "C" in MGNT 7331.

CISM 7332 Enterprise Data Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the design and use issues underlying relational, object-oriented and multidatabase management systems. Design and implementation methods are examined with the support of modern software tools, such as Oracle. Data management issues are addressed, including modern data storage infrastructure technologies (such as Data Warehousing, and SANs), the role of metadata, and storage of semi-structured data.

Prerequisite(s): Graduate standing and permission of Director of Graduate programs for COBA; prior or concurrent enrollment with a minimum grade of "C" in MGNT 7331.

CISM 7333 Digital Commerce**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course aims to provide students with an introduction to the issues that surround the management of digital commerce technologies within the business environment. Topics include global issues of E-Commerce, Internet business models, online marketing, mobile and ubiquitous commerce, W3C E-Commerce standards, electronic payments, and online agent technologies.

Prerequisite(s): Graduate standing and permission of Director of Graduate programs for COBA; prior or concurrent enrollment with a minimum grade of "C" in MGNT 7331.

CISM 7334 IT Strategy and Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes competitive advantage as a driver in information systems design and deployment. Among topics examined are: achieving sustainable competitive advantage via IT, how IT can be used to create business value, measuring returns on IT investments, developing an IT strategic plan, alignment of IT with corporate strategy, IT governance & ethics, outsourcing IT, developing IT as an organizational core competency, and improving business processes through the application of IT.

Prerequisite(s): Graduate standing and permission of Director of Graduate programs for COBA; prior or concurrent enrollment with a minimum grade of "C" in MGNT 7331.

CISM 7335 Business Intelligence and Performance Management Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the process of decision making, decision support systems, data warehousing, extraction, transformation and load (ETL) processes, on-line analytical processing (OLAP), enterprise performance management systems, and data mining. A number of software products from SAP are featured in this course, as well as software from other vendors.

Prerequisite(s): Completion of CISM 7330 is recommended.

CISM 7336 Enterprise Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Many organizations use large enterprise information systems, such as SAP, as the core of the financial, human resource, logistics, and manufacturing information systems. This course focuses on Enterprise Resource Planning (ERP) using SAP, along with Enterprise Architecture and other methods to implement an enterprise information solution. Special topics include managing SAP projects successfully.

Prerequisite(s): Completion of CISM 7330 is recommended.

CISM 7339 ERP Certification Review**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses the integration of business processes within SAP and prepares students for SAP's C_TERP10_60 certification exam. It serves as a capstone course for the ERP Certificate program and components of other graduate programs that include multiple courses that expose students to SAP.

Prerequisite(s): Completion of CISM 7231 is recommended.

CISM 7431 Project Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the principles and processes of project management using a systematic approach to problem solving. The project management body of knowledge areas (PMBOK) is covered, along with project management life cycle in addition to traditional project management (e.g., efficiency of the project, operational performance, planning, meeting time and budget goals). This course will give special emphasis to the management of implementation projects relevant to the students' majors, e.g. Enterprise Resource Planning (ERP) for Information Systems students or Total Quality Management (TQM) for Management students. Students are also taught how to use computer software to facilitate project management, and obtaining project management certification is emphasized.

Prerequisite(s): A minimum grade of "B" in CISM 7330 and prior completion of CISM 7331 is recommended.

CISM 9630 Information Systems Theories and Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide doctoral students with an overview of information systems theory and current research in information systems, which will provide students the foundational knowledge to perform cross-disciplinary research between the fields of IS and other disciplines, such as Logistics/SCM.

Prerequisite(s): Acceptance to Ph.D. Program in Logistics & Supply Chain Management.

CISM 9631 Seminar in Supply Chain Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of supply chain information systems and the critical role that these systems play in the ability of firms to reduce costs and increase the responsiveness of their supply chain. The value and competitive advantage of integrated supply chain management systems will be stressed along with the importance of enterprise resource planning, supply chain planning, warehouse management, and network modeling systems. SAP's SCM solutions and roadmap will be featured and emerging technologies capable of transforming supply chain operations and management will be explored.

CISM 9632 Enterprise Information Systems Theory and Practice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide doctoral students with an overview of current research in Enterprise Information Systems, with special emphasis on ERP (Enterprise Resource Planning) systems. This course will emphasize the design, implementation, and management aspects of these systems (e.g., EIS project management, architecture). Completion of this course will prepare doctoral students to perform research within the EIS subfield.

Prerequisite(s): Acceptance to Ph.D. Program in Logistic & Supply Chain Management.