Computer Information Systems Courses

Courses

CIS 5311. MIS Theory and Practice.
Management Information Systems Theory and Practice (3-0) A broad study of management information systems, decision support systems, and expert systems. MIS will be studied in depth from the standpoint of structures, technology and requirements. Problems and issues related to the design, implementation and management of MIS will be covered.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

CIS 5313. Strategic Information Systems.
Strategic Information Systems (3-0) Businesses must use information systems to take advantage of opportunities in today's highly competitive global economy. A strategic information system (SIS) is a type of system that is aligned with business strategy and structure. This alignment increases the capability to respond faster to environmental changes and thus creates a competitive advantage. This course will focus on those organizations that have successfully used SIS to achieve competitive advantage from a global perspective. Students will learn innovative uses of SIS relevant to different business functions and different business types. Case studies and group activities will help reinforce learning concepts in and use of SIS.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Information Resource Policy and Management (3-0) A study of the information systems management function with particular emphasis on planning, organizing, and controlling information resources including MIS personnel. Coverage of various methodologies for assessing and evaluating the MIS function. Also covered are various strategies and procedures for managing MIS development.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Prerequisite(s): (CIS 5311 w/C or better)

CIS 5340. Electronic Commerce in Busn.
Electronic Commerce in Business (3-0) The course will provide students with a well-defined set of business perspectives and good technical background in the electronic commerce (e-commerce) area. The course will also cover international, legal, ethical, and tax issues in the e-commerce area. The students will gain hands-on experience in designing, developing, deploying, and operating e-commerce dynamic Web sites using appropriate Web application construction software.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Prerequisite(s): (CIS 5311 w/B or better)
CIS 5350. Systems Analysis and Design.
Systems Analysis and Design (3-0) Students are introduced to the principles and techniques of systems analysis and design methods with particular emphasis on information systems. The conceptual architecture of an information system, information systems framework and conceptual building blocks are introduced. The systems modeling, design and implementation, two major elements of information systems analysis, are discussed in the context of life-cycle phases. The concept and techniques of information systems models, such as data model, process model and network model are discussed in depth. An appreciation of multi-disciplinary approach needed for systems analysis and management will be gained through an understanding of information systems project management techniques, tools, and skills required for a successful completion of an information systems analysis and design project.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of BSAD, CIS, EECE

Prerequisite(s): (CIS 5311 w/B or better ) OR (CIS 3350 w/C or better)

Information Systems Security (3-0) This course focuses on theoretical and practical concepts of information systems security and privacy. It covers security and privacy terminologies; risk analyses; and discusses criminology. The course also introduces students to the concepts and methodologies that can be used to analyze and mitigate the impact of information system security and privacy breaches on the assets of organizations. The course is structured as a research seminar as such each group of students (groups of 2) presents selected research papers to their peers on information systems security and privacy. Each group also prepares and presents an event study-based final research paper to their peers.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of BSAD, CIS, EECE

Prerequisite(s): (CIS 5311 w/B or better ) OR (CIS 3350 w/C or better)

CIS 5365. Database & Data Management.
Database and Data Management (3-0) An essential component of all business applications of information technology is an underlying core of data that provide the foundation for the information system. This course presents the full gamut of data management material, ranging from high level, conceptual views, through intermediate, formal modeling techniques, to hands-on usage of a current large-scale (Oracle) and microcomputer database management system, Microsoft Access. The course utilizes hands-on project work, but emphasizes managerial concerns such as ethics, societal impact, privacy, design, organizational impact, and strategic implication of data management. Students will thus gain both immediate useful skills, as well as exposure to longer-lived theory and concepts that will provide them with a solid knowledge base upon which to continue to upgrade their technical skills as technology implementations change in the future.

3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of BSAD, CIS, EECE
CIS 5370. Data Comm & Computer Networks.
Data Communication and Computer Networks (3-0) The course introduces students to data communication and computer network fundamentals and IS security basics. The course has a managerial approach to evaluating and selecting data communications and computer network technologies. Other topics covered include hardware and software for networks, various types of networks (LAN, MAN, WAN, VPN, wireless etc.), internetworking and Internet, network management and telecommunications. The course also covers network security and strategic use of such systems.
3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of BSAD, CIS, EECE

CIS 5380. Info Systems for Managers.
Information Systems for Managers (3-0) Information Systems for Managers is an internet-based course which examines the impacts, issues, advantages, and disadvantages of technology in Organizations, Education, Government, Society, Culture, Wireless environments, Computer Forensics and Security, and the Future. The course has a strong managerial perspective in order to prepare students for careers in IT. Coverage includes the analysis, design, implementation, and integration of systems in specific environments and the close examination of real-world technological phenomenon.
3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

Major Restrictions:
Restricted to majors of BSAD, CIS, EECE

CIS 5385. Diffusion & ICT Impact.
This course is designed to provide students with an understanding of theory development in the context of macro-level, micro-level, and multi-level cultural and institutional ICT and TAM effects of multinational entity decisions in a global environment.
3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

CIS 5392. Dir Individual Study in CIS.
Directed Individual Study in CIS (0-0-3) This course may be repeated but no more than three semester credit hours may be applied to satisfy the requirements for the Master's degree.
3 Credit Hours
3 Total Contact Hours
0 Lab Hours
0 Lecture Hours
3 Other Hours

CIS 5394. Current Issues in CIS.
Current Issues in CIS (3-0) A course organized to investigate special topics and current issues in computer information systems. May be repeated for credit when content varies.
3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours

CIS 5397. Professional Report in CIS.
Professional Report in Computer Information Systems (3-0) May be taken only once for credit.
3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours