MANAGEMENT INFORMATION SYSTEMS (MIS)

MIS 802 – Management Information Systems Seminar  3 credit hours
The case-based course provides the application of principles of management of information systems (MIS) in various organizational functions. This course will familiarize students with the techniques for evaluating the critical roles of information and information systems in support of organizational operations, decision-making processes, quality management, and strategic activities. It also covers management of information systems functions and professionals, as well as relevant global, ethical, societal and legal/regulatory issues. Focus is placed on the impact of rapidly changing technologies, such as the Internet, on organizations leading to new paradigms, like e-commerce and business-to-business applications, and the subsequent reengineering of organizations.

MIS 803 – Independent Study of MIS  3 credit hours
The focus of this course is an independent investigation into a MIS topic selected by the student. Students work individually with an appropriate faculty mentor in selecting and developing a project or research study of particular interest and significance to them in the field of Management Information Systems. Permission of the MBA director is required for the independent study to count toward the MBA program course requirements. Prerequisite: MIS 802

MIS 810P – Advanced Business Intelligence using Neural Network and Advanced Data Mining  3 credit hours
This course provides an understanding of advanced techniques to extract business intelligence. Neural networks and data mining tools are covered extensively.
Prerequisite: MIS 350 or permission of instructor

MIS 821P – Business Process Redesign and ERP  3 credit hours
This course provides an understanding of business processes and usage of various methods and computerized tools to redesign these processes. The redesigned processes will assist organizations in providing cost-effective quality products and services to consumers. Further, this course provides an overview of the Enterprise Resource Planning (ERP) Systems which are widely used by corporations for automation of their processes.

MIS 830P – Knowledge Management and Expert Systems  3 credit hours
This course provides a set of practical and powerful tools to ensure the understanding of knowledge management systems and expert systems. The exposure to computerized tools facilitates development of expert systems.
Prerequisite: MIS 350 or permission of instructor

MIS 840P – Systems Audit  3 credit hours
This course provides an understanding of many types of audit needs, such as organizational IT audits (management control over IT), technical IT audits (infrastructure, data centers, data communication), application IT audit (business, financial, operational), development/implementation IT audits (specification/requirements, design, development, and post development phases), and compliance IT audits involving national and international standards.

MIS 850P – Software Quality Assurance  3 credit hours
The software industry has witnessed recently a dramatic rise in the impact and effectiveness of software quality assurance (SQA). SQA has become integrated into all phases of software development. This course provides an overview of various concepts/techniques such as inspection, Pareto principles, software configuration management, capability maturity models, statistical testing methods, software reliability, and software safety. It also distinguishes the variations in SQA applications for mission-critical software and commercial software.

MIS 881P – Systems Analysis and Design II  3 credit hours
Students use several software packages as they work through the steps of systems development life cycle with business cases. Prerequisite: MIS 380 and MIS 381 or proficiency in Systems Analysis and Design I and Programming using ASP

MIS 885P – Information Systems Strategy and Management  3 credit hours
This course provides a set of practical and powerful tools to ensure the understanding of strategic, tactical, and operational responsibilities of the chief information officer (CIO). The strategic responsibilities include the strategic alignment among information technology and business functions of the organizations.

MIS 899 – Management Information Systems Topics  3 credit hours
In-depth coverage of selected subjects, problems, and current topics in Management Information Systems which are not covered elsewhere in the MBA program. Course consists of class discussion and/or special projects. The purpose of the course is to offer an opportunity for students to study fresh Management Information Systems topics of particular timeliness in more depth than appropriate in other existing courses. Topics vary per offering.
Prerequisite: MIS 802