

Management Information Systems

Dean: Dr. Randy Frye

The School of Business carefully blends a high-caliber, technical business education with a broad-based, integrated liberal arts education, that yields graduates who become talented and successful business and non-profit sector professionals; respect human life and cherish life-long learning; promote moral, spiritual, and social development; practice appropriate personal and professional ethical behavior; communicate clearly; and recognize their responsibilities to family and community.

The School of Business offers the Bachelor of Science degree in Business Administration with majors in accounting, economics, finance, management, and marketing. All business programs are supported by a Common Business Core (CBC) that provides coursework in areas fundamental to a broad-based business education and includes courses in accounting, economics, business communication, finance, the legal environment of business, management, management information systems, marketing, production and operations management, statistics and strategic management. The CBC will also develop the skill competencies and themes of undergraduate business education at Saint Francis University. The skill competencies are effective communication; creative, critical thinking, and mathematical thinking; human relations and teamwork; and productive use of information (computer) technology. The unifying themes of undergraduate business education at Saint Francis University are global business, understanding and appreciating diversity, fostering empirical links with the business community (realism), making connections across business functions and disciplines, and seeing the ethical dimensions of business practices and decisions.

The Management Information Systems Program prepares students to analyze, design, develop, implement, integrate, manage, and maintain management information systems and information technology. The program carefully and effectively blends a solid business administration education with the technical and conceptual aspects of computer-based information systems and e-commerce. Students in the MIS program will need to think critically, solve problems, command effective communication skills, acquire high-caliber computer science knowledge and skills, and develop general business information systems acumen. Students study information systems, database management, applied computer programming with business applications, network and data communications, system analysis and design, decision support systems, and e-commerce. The program prepares graduates for positions of leadership in information management careers, such as information systems manager, information systems analyst, network administrator, data communications specialist, information technology specialist, database administrator, telecommunication manager, web master, and e-commerce consultant.

MAJOR REQUIREMENTS

Management Information Systems 102, 110, 342, 343, 345, and 406; Accounting 101, 102; Business 101; Business Law 301; Computer Science 101; Economics 101, 102; English 208; Finance 202; Marketing 302; Management 101, 102 and 401; Mathematics 111 or higher; Statistics 301, 302; and two courses from Management Information Systems 398-399, 409, and 501 or Management 201, 206, 308, and 326 or Marketing 321.

Minor Requirements: Computer Science 101; Management Information Systems 102, 342, 343; Management 101; and one of the following: Computer Science 121 or Management Information Systems 110.

INFORMATION SYSTEMS MANAGEMENT — COURSE DESCRIPTIONS

102. Management Information Systems (same as Computer Science 102) (3 credits)

Systems theory, quality, decision-makings and the organizational role of information systems are introduced. Information technology including computing and telecommunications systems are stressed. Concepts of organization and information systems growth and re-engineering are introduced. This course emphasizes management considerations, as well as structured system techniques and technological factors. Prerequisite: CPSC 101. Fall.

110. Computer Programming with Business Applications (same as Computer Science 110) (3 credits)

Introduction to the basic principles of computer programming and the application of programming solving business-oriented problems. Topics include algorithm development, basic control structures, procedures, arrays, records, graphic user interface design, and file processing. Applications in Visual basic will be included. No prior exposure to computer programming is assumed. Fall, Spring.

342. E-Commerce (same as Computer Science 342) (3 credits)

Introduction to the use of computer networks as a medium for commercial activity. Topics include technological infrastructure, Internet retailing and advertisement, business-to-business commerce, consumer behavior, corporate strategy, and the legal and societal issues of electronic commerce. Prerequisite: CPSC 101. Fall.

343. System Analysis and Design (same as Computer Science 343) (3 credits)

This course examines the system development and modification process. It emphasizes the factors for effective communication and integration with users and systems. It encourages interpersonal skill development with clients, users, team members, and others associated with development, operation and maintenance of the system. Structured and object oriented analysis and design, use of modeling tools, adherence to methodological life cycle and project management standards. Prerequisite: MIS 102. Spring.

345. Data Base Management (same as Computer Science 345) (3 credits)

Analyze techniques for organizing, storing, and accessing sets of related data. Conceptual analysis as well as practical applications on computers are presented. Also emphasizes management control practices concerning security, privacy, integrity, and the maintenance of the data. Prerequisites: MIS 110, 343; Management 101. Fall.

398-399. Management Information Systems Internship (3-15 credits)

The integration of classroom theory with practical work experience under which students have specific periods of attendance at college and specific periods of employment, either full or part-time, with or without pay. Credit may vary from three to 15 credits, depending upon the internship, but no more than nine credits may be counted toward major elective requirements, with additional credits counted as free electives. *Open only to Management Information Systems majors, with approval of the chair of the department and the Provost.* Fall, Spring, Summer.

406. Project Management Practices (3 credits)

This course covers the factors necessary for successful management of information systems development or enhancement projects. Both technical and behavioral aspects of project management are applied within the context of an information systems development project. Course topics include: Managing the system life cycle, managing expectations of managers, clients, team members and others, software tools for project tracking and monitoring, and team collaboration techniques and tools. *Prerequisites: MIS 343 and FIN 202.* Spring.

409. Special Topics in Management Information Systems (1-3 credits)

Exploration in depth of selected areas in management information systems not currently offered in the curriculum. *Spring.*

501. Independent Study in Management Information Systems (1-8 credits)