Management Information Systems (ISIT)

The major in management information systems focuses on the strategic and competitive role of information systems in today's business organizations, and the global, social, cultural, and economic importance of the Internet and associated technologies. The management information systems major includes courses that develop general business and management skills, along with information systems courses that explore the exciting cutting-edge nature of technology, its great potential of to improve lives, associated risks and ethical dilemmas, and how responsible, ethical leadership in the application of technology will help create a better world.

The management information systems curriculum is aligned with the recommendations of professional organizations and employers with regard to critical knowledge and skills regarding information systems and business. The management information systems major prepares students to be business leaders and advocates regarding information systems in their organizations, to think critically regarding how information systems can be employed to achieve organizational goals, and to participate meaningfully and responsibility in a global community where technology is shaping many facets of our personal and professional lives.

Major requirements for a B.A. or B.G.S. degree in Management Information Systems

Required semester hours

40 sh

Required core courses

ISIT 3030, 3040, 4010, 4020, 4040, 4050, 4060; ORG 3034, 4074, 4094, 4120

Course descriptions for ORG courses may be found under the respective major in the SAL program.

Business Information Systems Certificate

The Business Information Systems Certificate provides foundational knowledge of information, focusing on the business applications of information technology. These courses also include consideration of social, legal, and ethical issues. The Certificate is open to students at large and students from other SAL majors. Majors who complete these courses may also request a Certificate. All courses count as part of the major.

Required semester hours

12 sh

Required core courses

ISIT 3030

Elective courses

Select 8 sh from ISIT 3040, 4010, 4020, 4040, 4050

3030 **Information Systems in Organizations (4 sh)**
This course addresses functional, strategic and competitive roles of information systems and information technology in organizations. Topics include hardware and software, types of information systems, the analysis and development of information systems, management of the information systems function, and workplace social, legal ethical issues related to technology.

3040 **Web Technologies and E-Commerce (4 sh)** GESAL
This course focuses on current and emerging business uses of web technologies including home pages, advertising, retail sales, electronic commerce, middleware, partnering, payment systems, and security and encryption. The course also considers changes in corporate economics driven by electronic commerce and social, legal and ethical issues related to web technologies.

4010 **Information Age Communications Technolgy (4 sh)**
This course focuses on business and organizational applications of current and emerging communications technologies. Topics include networks, security, wireless technology, mobile computing, social networking and emerging communications technologies. Social, legal and ethical issues related to communications technologies.

4020 **Managing Data and Information (4 sh)**
This course covers a variety of topics related to the design and management of databases and information repositories. The course focuses upon databases and data warehouses and their critical role in business and other organizations. Other topics include the nature of business information, emerging trends in information repositories, and privacy and security concerns related to storage and warehousing of information.

4040 **Information Systems Analysis and Design (2 sh)**
The course presents standard methodologies for analyzing business problems and modeling business processes in order to identify information system requirements. Frameworks for evaluating different implementation approaches will also be covered. Students will develop skills for writing clear and concise business requirements and for communicating and collaborating effectively with various organizational stakeholders. Prerequisite: ISIT 4020.

4050 **Decision Support Systems (2 sh)**
This course focuses upon how decision support systems technologies can support managerial decision-making. Systems covered include expert systems, executive information systems, groupware, artificial intelligence, intelligent agents, and knowledge management. The course also includes an overview of decision-making along with methods for designing and implementing decision support systems. Students will use application software to solve managerial decision-making problems. Prerequisite: ISIT3030.

4060 **Strategic Management of Information System Projects (4 sh)**
This capstone course integrates knowledge and skills acquired in previous courses and presents strategic approaches for identifying organizational information systems projects and evaluating the acquisition, development and implementation of those projects. Additional topics include managing risk; systematic processes and methods organizations use to initiate, specify and prioritize information systems projects, determine their feasibility, and identify acquisition alternatives. A systemized methodology for managing information systems projects is also presented. Students develop a strategic project plan to develop and manage an information system project addressing a business challenge or opportunity. Prerequisite: ISIT 4040.