MIS—MANAGEMENT INFORMATION SYSTEMS

COLLEGE OF BUSINESS ADMINISTRATION

MIS U301 Management Information Systems 4 SH
Addresses the role of information and computer-based information systems in managing business organizations. Topics include hardware and software concepts, telecommunications and database management systems, decision support and e-commerce; informational privacy and security; the development of information systems; and management of the IS function. Focuses on information systems in business from a managerial perspective, rather than teaching specific software skills. Prereq. Sophomore standing or above.

MIS U305 Information Resource Management 4 SH
Examines the strategic and organizational issues associated with implementing and using information systems to achieve competitive advantage, create new products and services, redesign business operations, and alter relations with customers and suppliers. Addresses how information technology is used to support the functional areas of business such as finance, accounting, marketing, manufacturing, and human resource management. Explores the issues involved in investing in new technologies. Prereq. MIS U301.

MIS U309 Management Information Systems 4 SH
Does not count as credit for business majors. Counts as MIS U301 for business minors only. Prereq. ACC U201 or ACC U209.

MIS U402 Business Programming 4 SH
Provides students with experience in structured reasoning and programming. Gives students an opportunity to gain an appreciation for design, coding, debugging, and executing program modules. Emphasizes the design methodologies required to create such modules. Prereq. MIS U301.

MIS U403 Data Management and Information Analysis 4 SH
Provides students with an in-depth understanding of the information systems development life cycle (SDLC) for databases from the design stages through the implementation and maintenance stages. Emphasizes the practical application of the SDLC to the design and construction of a departmental-level database in a project-based environment. Database topics include data models and modeling techniques; structured and object design approaches; differing database architectures; the development of the user interface; the function of data dictionaries, repositories, and data warehouses and data-mining applications; and the role of the database administrator. Students also exposed to conducting the information analysis required for decision support. Prereq. MIS U301.

MIS U404 Business Data Communications 4 SH
Provides a comprehensive introduction to the principles and techniques of business data communications, from the fundamentals of telecommunications systems to the strategic use of telecommunications. Directed toward the business student who desires a technical overview of the concepts of data transmission and methodologies employed in designing and managing communication networks. Prereq. MIS U301.

MIS U406 Designing Web Applications 4 SH
Provides students with the opportunity to design Web-based applications for business. Identifies both software and hardware necessary to implement these applications. Students work on a semester-long project designed to enhance concepts introduced in the class concerning Internet-based applications. Prereq. MIS U301.

MIS U408 Knowledge Management 4 SH
Provides an overview of the field of knowledge management. Knowledge is a key strategic resource in today's economy, and organizations must create and share it effectively to be successful. Some of the most creative applications of information technology are those that enable teamwork, communication, problem solving, and innovation. Examines how knowledge differs from data and information, the role knowledge plays in organizations, and the role information technology can play in managing that knowledge. Prereq. MIS U301.

MIS U410 Multimedia Applications 4 SH
Explores the business uses of audio, video, and wireless technologies and examines how businesses can use them for future growth. Focuses on the use of new technologies to enhance revenue, reduce costs, and support other business applications. Students complete a project using evolving technologies. Prereq. MIS U301.

MIS U501 Business Systems Integration 4 SH
Explores strategies for the technical and organizational integration of information systems through a hands-on project requiring students to form companies, analyze their data needs, design and build a set of information systems, and recommend a strategy for their integration within and between companies. Prereq. MIS U403.

MIS U512 Special Topics in Information Technology Management
Examines various contemporary issues in information technology management. Topics may include wireless technologies for business; the emergence of global information systems; collaborative implementation; and others. Prereq. Permission of instructor.
MIS U921 Independent Study 1 SH
MIS U922 Independent Study 2 SH
MIS U923 Independent Study 3 SH
MIS U924 Independent Study 4 SH
Allows students who have received approval to undertake independent study in lieu of any course required in the various concentrations. Students present proposals to an Independent Studies Committee for evaluation and approval. Every proposal requires a detailed outline of the objectives and plan of study and must be accompanied by a supporting statement from the supervising faculty member under whose direction the study takes place. A copy of the final report prepared by the student is presented to the appropriate Independent Studies Committee. Further information about the Independent Studies Program can be obtained from concentration coordinators. *Prereq.* Permission of instructor.

MIS U970 Junior/Senior Honors Project 1 4 SH
Focuses on in-depth project in which a student conducts research or produces a product related to the student’s major field. Culminating experience in the University Honors Program. Combined with Junior/Senior Project 2 or college-defined equivalent for 8-credit honors project. *Prereq.* Honors program participation.

MIS U971 Junior/Senior Honors Project 2 4 SH
Focuses on second semester of in-depth project in which a student conducts research or produces a product related to the student’s major field. Culminating experience in the University Honors Program. *Prereq.* MIS U970 and honors program participation.