MIS - Management Information Systems

Department of Finance, Real Estate & Decision Sciences

Courses numbered 100 to 299 = lower-division; 300 to 499 = upper-division; 500 to 799 = undergraduate/graduate.

MIS 190. Selected Topics in MIS  (1-3).
Repeatable for credit with departmental consent.

MIS 310. Fundamentals of Business Application Development  (3).
Uses a contemporary business programming language to teach business application development concepts in a visual programming environment. Designed for learning how to solve business problems by using event-driven programming. Prerequisites: junior standing, advanced standing.

MIS 325. Data Communications and Computer Networks  (3).
Takes a problem-solving approach to introducing data communication and computer networking concepts. Technical and managerial issues in supporting electronic commerce, business-to-business electronic data interchange, virtual teams, extranets, local area networks (LAN), remote access and internetworking LANs over a wide area network (WAN) provide the backdrop for introducing data communication concepts (OSI), standards, protocols and technologies. Prerequisites: BADM 161, 162 and 163, junior standing, advanced standing.

MIS 390. Special Topics in MIS  (1-3).
Repeatable for credit with departmental consent. Prerequisites: junior standing, advanced standing.

Studies the structure and the strategic role of computer-based information systems. Includes information resource management perspective emphasizing issues of information architecture, data integration and administration, and risk management in information systems development efforts. Prerequisites: BADM 161, 162 and 163, junior standing, advanced standing.

MIS 481. Cooperative Education  (1-3).
An academic program that expands a student's learning experiences through paid employment in a supervised educational work setting related to the student's major field of study or career focus. Repeatable for credit. Graded Cr/NCr. Prerequisites: 2.500 GPA in MIS, junior standing, advanced standing.

MIS 481N. Internship  (1-3).
Complements and enhances the student's academic program by providing an opportunity to apply and acquire knowledge in a workplace environment as an intern. Graded Cr/NCr. Prerequisite: departmental consent.

MIS 491. Independent Study/Project  (1-3).
Courses may be of two general types. The first consists of doing research, readings or other scholarly investigation in a subject area that is coordinated by a faculty member. The topic and scope would be mutually agreeable to the student and the faculty member. The second consists of doing a specific project for an organization, which might require the student to do research. The student may be embedded in an organization (either with or without pay) and under the direction of an organizational representative and a faculty member in order to accomplish a specific project. In either case, the course cannot be used to substitute for a regular departmental course. Repeatable for credit. Graded Cr/NCr. Prerequisites: 2.750 GPA in the academic area, junior standing, advanced standing, departmental consent.

MIS 600. Database Management Systems  (3).
Introduces various methodologies for conceptual data modeling including entity-relationship data modeling and object-oriented database design. Covers relational database management systems, the SQL standard and data administration issues. Students obtain hands-on development with SQL servers in a client/server environment in a required database programming project. Covers electronic commerce transaction processing, data warehousing, data mining and distributed database management. Prerequisites: BADM 160, 162 and 163 with a grade of C+ (2.300) or better, junior standing, advanced standing.

MIS 605. Systems Analysis and Design  (3).
Introduces various methodologies for systems analysis, design and implementation. Examines application development in the context of the overall MIS master planning effort; examines techniques related to business process engineering. Uses a real-life project as the vehicle to put into practice tools and techniques related to interviewing, cost/benefit analysis, computer-aided software engineering, software project management and system documentation. Prerequisites: junior standing, advanced standing.

MIS 610. Dynamic Web Programming  (3).
Uses ASP.NET as the programming tool to teach Web application development. Includes HTML forms, server objects, and SQL-based data sources for developing interactive and dynamic Web applications within a server-based scripting environment. Covers advanced topics such as ADO and implementing security in Web environments. Prerequisites: MIS 310, 600 each with a grade of C+ (2.300) or better, junior standing, advanced standing.

MIS 611. Topics in Computer Networking  (3).
Selected data communications and networking topics are examined in greater detail and depth. Students study the design, configuration, implementation, maintenance, management, troubleshooting and evaluation of selected networking technologies and software. Time is devoted to both concepts and hands-on exercises. Prerequisites: MIS 325 with a C+ (2.300) or higher, junior standing, advanced standing.

MIS 615. Advanced Business Application Development  (3).
Presents advanced concepts and techniques for business problem solving by developing software applications using a contemporary business programming language. Special emphasis is placed on object-oriented programming approach. Topics include developing classes, using a multi-tiered approach toward application development, establishing database connection, working with data tables, and database processing. Prerequisites: MIS 310 with a grade of C+ (2.300) or better, junior standing, advanced standing.

MIS 690. Seminar in Selected Topics  (1-3).
Repeatable for credit with departmental consent. Prerequisites: senior standing, departmental consent, advanced standing.

MIS 696. Management of the IS Function  (3).
Addresses the issues of managing the information systems (IS) function. Includes the role of IS as a corporate entity, developing a strategic plan for IT investments, organizing the IS department, IS personnel management, IS project management, the role of IS as a user-support entity, auditing the IS function and emerging issues in managing the IS department. Prerequisites: MIS 605 (or concurrent enrollment), junior standing, advanced standing.

MIS 750. Business Intelligence and Analytics  (3).
Introduces design and implementation of business intelligence systems for tactical, managerial and strategic level decision making. Addresses how organizational data and analytics support business performance management. Prepares managers for developing and implementing
digital performance dashboards to monitor business processes and make informed decisions. Replaces MIS 650 effective fall 2013.