MIS-MANAGEMENT INFORMATION SYSTEMS

MIS 2113   Computer-Based Information Systems   3 Credit Hours
Prerequisite: undergraduate major in Business, prerequisite or concurrent enrolled in B AD 1001. The course educates students on how information technology facilitates organizations to achieve its goals and solve problems. Students will learn to use latest tools of information technology, conduct hands-on-exercises and solve problems. Hence, students will become familiar with advanced use of spreadsheet and database software, networking technologies, web and application programming languages, and business analytics methods. (F, Sp, Su)

MIS 3013   Introduction to Programming   3 Credit Hours
Prerequisite: MIS 2113 and Junior standing; student must be approved for degree candidacy by Price College. Introduce the basic principles of programming and design. Topics covered are language syntax, algorithm, development, logic structures, arrays and math function. (F, Sp)

MIS 3033   Business Programming Languages   3 Credit Hours
Prerequisite: student must be approved for degree candidacy by Price College; majors only; MIS 3013; and MIS 3353 or concurrent enrollment. May be repeated once with change of topic; maximum credit six hours. Various emerging programming languages and tools relevant to MIS applications. The basic syntax, code construction, and Object-oriented programming concepts and the business use of programming languages will be covered. Possible languages could include Visual Basic in the .Net framework, Java, and C#. (F, Sp)

MIS 3213   Business Data Analysis   3 Credit Hours
Prerequisite: student must have been approved for degree candidacy by Price College. This course will cover the use of end user computing tools such as spreadsheets to analyze various business problems. The course will introduce fundamental principles of business analysis and computer programming to develop solutions. Students may not receive credit for both MIS 3213 and MIS 3223. (F, Sp)

MIS 3353   Databases   3 Credit Hours
Prerequisite: Student must be approved for degree candidacy by Price College; majors only; or permission. As organizations depend on data for their decisions, understanding database management is crucial. This course covers the structure, flow, and use of business data with an emphasis on data integrity. It covers conceptual data modeling, normalization, structured query language (SQL), physical database design and implementation, and data warehousing concepts. A team project with phased deliverables serves as the focal point. (F, Sp)

MIS 3373   Systems Analysis and Design Theory   3 Credit Hours
Prerequisite: 3353 or permission. A study of the structure and application of tools, technologies, and models for analyzing, designing, and evaluating information systems. Topics include: case tools, structured analysis, I/O design, rapid application development, simulation models, prototyping, human factors, alternatives, cost/benefit analysis, recommendations for a new system, implementation and post-evaluation. (F, Sp)

MIS 3383   Electronic Business   3 Credit Hours
Prerequisite: Student must be approved for degree candidacy by Price College or permission. The application of information technology to enable business processes (e.g., sales, manufacturing, procurement, financial accounting) across business enterprises. There is a substantial focus on Enterprise Resource Planning (ERP) systems, and students become familiar with the value and use of these systems in supporting everyday business activities. Students will make use and develop competency on popular ERP software. (F, Sp)

MIS 3440   Mentored Research Experience   3 Credit Hours
0 to 3 hours. Prerequisites: ENGL 1113 or equivalent, and permission of instructor. May be repeated; maximum credit 12 hours. For the inquisitive student to apply the scholarly processes of the discipline to a research or creative project under the mentorship of a faculty member. Student and instructor should complete an Undergraduate Research & Creative Projects (URCP) Mentoring Agreement and file it with the URCP office. Not for honors credit. (F, Sp, Su)

MIS 3960   Honors Reading   1-3 Credit Hours
1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted Honors candidate to study materials not usually presented in regular courses. (F, Sp)

MIS 3970   Honors Seminar   1-3 Credit Hours
1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Subjects covered vary. Deals with concepts not usually treated in regular courses. (Irreg.)

MIS 3980   Honors Research   1-3 Credit Hours
1 to 3 hours. Prerequisite: admission to Honors Program. May be repeated; maximum credit six hours. Provides an opportunity for the gifted Honors candidate to work at a special project in the student's field. (F, Sp)

MIS 3990   Independent Study   1-3 Credit Hours
1 to 3 hours. Prerequisite: permission of instructor and junior standing. May be repeated once with change of content. Independent study may be arranged to study a subject not available through regular course offerings. (F, Sp, Su)

MIS G4013   E-Commerce Web Design   3 Credit Hours
Prerequisite: Student must be approved for degree candidacy by Price College; MIS 3013 or MIS 3033, or instructor/departmental permission. Students will be exposed to fundamental principles of web design and development that can enable e-commerce and add business value. By programming and using tools, students will design and develop a website for an organization. They will understand how the website can be evaluated from an e-commerce perspective. (Sp)

MIS G4313   Introduction to Business Analytics   3 Credit Hours
Prerequisite: Student must be approved for degree candidacy by Price College; senior standing; MIS 2113 or MIT 5602. Introduces students to concepts of business analytics and helps them develop skills to identify interesting insights from data. Students will be introduced to tools, techniques, and digital technologies that are relevant to business analysis and decision-making. While exploring these tools, the course will attend to applications across the different functional areas of business and organizations. (F, Sp)

MIS G4363   Business Infrastructure and Cyber Security   3 Credit Hours
(Crosslisted with HCB 4363) Prerequisite: Student must be approved for degree candidacy by Price College. Provides information necessary to gain an understanding of communications and telecommunications networks and cyber security concepts. Key topic areas of the course are: OSI and internet network models, standards and protocols, business infrastructure design (LAN, WLAN, Backbone Networks, WAN, Connection to the Internet), cyber security concepts, basic technical and managerial aspects of business infrastructure, and practitioner's concerns and perspectives. (F, Sp)

MIS G4393   Enterprise Resource Planning Configuration   3 Credit Hours
Prerequisite: MIS 3383, and student must be approved for degree candidacy by Price College; or permission of instructor. This course is designed to present an overview of key enterprise systems design concepts from a functional, technical, and implementation perspective. Emphasis is on the process-centered organization and how integrated systems are designed to support cross-functional business. (F, Sp)

MIS G4433   Project Management   3 Credit Hours
Prerequisite: Student must be approved for degree candidacy by Price College; MIS 3353 or MGT 3013, or permission of instructor. Presents the technical, managerial, and organizational concepts and tactics associated with managing software development and/or acquisition projects. A project management software tool will be introduced and used at a very basic level. (Irreg.)

MIS G4663   MIS Field Project   3 Credit Hours
Prerequisite: MIS 3013, MIS 3353, and MIS 3033 or concurrent enrollment in MIS 3033; student must be approved for degree candidacy by Price College; or permission of instructor. Involves a field project for a client-business firm or other organization. Students will work closely with their client to perform an analysis, provide design alternatives, evaluate alternatives, develop and demonstrate a working model (prototype) of a part of the system, prepare a recommendation, and make a formal presentation to their client. (F, Sp)

MIS G4693   Intelligent Robotic Automation   3 Credit Hours
Prerequisite: MIS 3033 or MIS 3013 or departmental permission. This course introduces students to the latest intelligent robotic automation and AI technology (e.g., Chat GPT). Particular attention is given to emerging issues associated with the building and applications of AI technology architectures to enable efficient, effective, and adaptable business operations and strategies. It also provides hands-on exercises for building intelligent robots to address emerging business needs. (Sp)

MIS G4703   Mobile Application Development   3 Credit Hours
Prerequisite: MIS 3013, MGT 3013, MKT 3013, LS 3323, and FIN 3303; student must be approved for degree candidacy by Price College. Students will learn elements of good interface design for mobile devices, get an overall view of mobile app development, and build their own basic mobile app. (F, Sp)

MIS G4723   Information Security   3 Credit Hours
Prerequisite: MIS 3013; student must be approved for degree candidacy by Price College. The course covers the essentials of information security using a hands-on approach. Students will learn how computer security breaches occur and apply concepts learned. (F, Sp)

MIS 4960   Directed Readings in Management Information Systems   1-3 Credit Hours
1 to 3 hours. Prerequisite: 2113, 3013 or 3033, or permission. May be repeated once with change of topic; maximum credit six hours. Topics in the management of information systems. (F, Sp, Su)

MIS 4970   Special Topics/Seminar   1-3 Credit Hours
1 to 3 hours. Prerequisite: Senior standing or permission of instructor. May be repeated; maximum credit nine hours. Special topics or seminar course for content not currently offered in regularly scheduled courses. May include library and/or laboratory research and field projects. (Irreg.)

MIS 4990   Independent Study   1-3 Credit Hours
1 to 3 hours. Prerequisite: Senior standing and permission of instructor. May be repeated; maximum credit nine hours. Contracted independent study for a topic not currently offered in regularly scheduled courses. Independent study may include library and/or laboratory research and field projects. (Irreg.)