Information Systems (IS) - Courses

Courses

IS 220 Cr.3
Information Systems for Business Management
This course provides the basic level of management information systems literacy. The course introduces the building blocks of information systems, the various organizational aspects of utilizing information systems, and the role of information systems in the digital economy. Students gain familiarity with spreadsheet and database applications that provide useful information to business functional areas. Prerequisite: sophomore standing. Offered Fall, Winter, Spring, Summer.

IS 250 Cr.1-3
Information Systems Internship
An information systems internship provides an opportunity for declared information systems majors to earn academic credit for experiential learning when working for cooperating business, government, or civic organizations. Credits earned will not count toward information systems major requirements. Repeatable for credit - maximum six credits. Prerequisite: cumulative GPA of at least 2.50; declared information systems major or business analytics major. Consent of department. Pass/Fail grading. Offered Fall, Winter, Spring, Summer.

IS 300 Cr.3
Data Management for Business Problem Solving and Decision Making
This course provides an understanding of data management used to help solve business problems and make sound business decisions. In addition to the conceptual and academic foundations of data management, the course also explores the application of software tools to manage, manipulate, analyze, and visualize data. Prerequisite: IS 220 or healthcare analytics management minor. Offered Fall, Spring.

IS 310 Cr.3
Information Systems in Networked Environments: Technical Foundations and Applications
This course provides fundamentals of data communications and business networking requirements, and examines the linkage of information technology strategies and technological solutions for enabling effective business processes within and between organizations in emerging environments. Major topics include fundamentals of data communications and business networking, applications to data communications, basic technologies of the internet and the web, commercial use of internet technologies, e-business applications, and cases in online industries. Prerequisite: IS 220. Offered Spring.

IS 320 Cr.3
Artificial Intelligence for Decision Making and Data Analytics
This course provides a systematic introduction to artificial intelligence (AI) and the impact on organizations. AI applications are utilized to illustrate the concepts, fundamentals, and use of AI. AI tools and applications are applied to analyze business results and support business decision making processes. Prerequisite: IS 220; business analytics major/minor or information systems major/minor. Offered Fall, Spring.

IS 330 Cr.3
Business Choices and Telecommunications Decision
This course examines the business and organizational role of telecommunications. The course focuses on using telecommunications to support and achieve business strategies and does not address the theoretical foundations of telecommunications. Course topics include how businesses are being reshaped by advances in telecommunications; how businesses plan, deploy and manage telecommunications resources; and how businesses are utilizing and administrating local area network (LAN) and wide area network (WAN) technology to achieve business objectives. Prerequisite: IS 310. Offered Occasionally.

IS 340 Cr.3
Information Systems Security and Data Assurance Management
This course provides an overview of information systems security management and data assurance principles. Coverage includes privacy concerns and safeguards, ethical issues surrounding data and information, information risk analysis, information system vulnerabilities, security threats and countermeasures. Prerequisite: IS 220. Offered Fall.

IS 360 Cr.3
Management of Business Analytics
The course addresses the remarkable impact that analytics is having on business. This course provides students with the fundamental concepts and tools needed to understand the emerging role of business analytics in organizations. The course examines issues that both information systems managers and non-information systems managers face in managing and performing business data analytics within an organization. Students apply business analytics approaches to support business decision making and problem-solving efforts and learn how to effectively use and interpret analytic models and results for business decisions. The course covers managerial statistical tools in descriptive analytics and predictive analytics. Prerequisite: IS 220; junior standing. Offered Fall, Spring.

IS 401 Cr.3
Management Information Systems: Analysis and Design
This course covers the development process for computer-based management information systems. This course emphasizes information analysis and the logical design of management information systems. Prerequisite: IS 300. Offered Fall.

IS 405 Cr.3
Special Topics in Information Systems
This course examines and studies current issues in information systems. Topics vary from semester to semester. Repeatable for credit with different topic - maximum six. Prerequisite: junior standing. Offered Occasionally.

IS 411 Cr.3
Management Information Systems: Project Management and Implementation
This course emphasizes the use of project management techniques to support an information system implementation. In-depth exposure to key tools, techniques, practices, and knowledge areas of project management are applied to system implementation. Prerequisite: grade of "C" or better in ACC 221, ACC 222, BLAW 205, ECO 110, ECO 120, ENG 110 or ENG 112, MTH 160 or MTH 175 or MTH 207, and STAT 145 or STAT 245; 54 credits earned. Offered Spring.

IS 440 Cr.3

Business Data Visualization and Communication

This course covers data visualization concepts, practices, and tools particularly for analyzing and presenting business data. Students will evaluate, design, and develop effective visualizations and dashboards using various development tools. Prerequisite: ECO 230, IS 300. Offered Spring.

IS 451 Cr.1-3

CBA Management Information Systems Internship

The internship program as conceived and implemented is designed to provide an opportunity for students in the College of Business Administration to participate in an approved program with a cooperating business, governmental or civic organization for usually 15 weeks of their undergraduate work. All internships must be approved and supervised by an IS faculty member. For additional information, see internship description under the College of Business Administration heading. Repeatable for credit - maximum three. Prerequisite: cumulative GPA of at least 2.50; ACC 221, ACC 222; BLAW 205; ECO 110, ECO 120, ECO 230; FIN 355; IS 220; MGT 308; MKT 309. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

IS 499 Cr.1-3

Independent Study

In this course students engage in individual reading or research under the guidance of a staff member. This course is open to selected advance students who have excellent records in the department. Repeatable for credit - maximum six. Prerequisite: grade of "C" or better in ACC 221, ACC 222, BLAW 205, ECO 110, ECO 120, ENG 110 or ENG 112, MTH 160 or MTH 175 or MTH 207, and STAT 145 or STAT 245; 54 credits earned. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.