INFORMATION SYSTEMS (INFS)

INFS 401 - INFORMATION RESOURCE MANAGEMENT
Information processing systems; information technology infrastructure; database and information management; computer networks and telecommunications; information security; enterprise applications; e-commerce; building information systems; fundamental management; strategic, and organizational issues in the use of information systems.
Credits: 3

INFS 402 - BUSINESS ANALYSIS
This course provides the fundamental concepts of business analysis that are essential to the practice and further advanced study in the field. The course will cover the International Institute of Business Analysis BABOK® knowledge areas, business analysis skills and techniques. Topics will include business analysis planning and monitoring, elicitation, requirements management and communication, enterprise analysis, requirements analysis, solution assessment and validation.
Credits: 3
Prerequisites: INFS 401

INFS 412 - DATABASE SYSTEMS
Logical database organization, analysis, and design. Alternatives for database organization in business environment. Database management with emphasis on security and responsibilities of database administrator. Survey of major database management software.
Credits: 3
Prerequisites: INFS 401

INFS 413 - DATA ANALYTICS
Organizations today are inundated with data, gathered from both inside and outside the organization. To improve business decisions, analytics for big data-at-rest and big data-in-motion must be explored. This course introduces the concept of business analytical methods, models and in particular the analysis of big data, that is, data sets so large that traditional relational database management systems and computing platforms are insufficient. Hadoop architecture with MapReduce and its ecosystems will be discussed. Students will have a chance to work with big data analytic tools from IBM and Microsoft.
Credits: 3
Prerequisites: INFS 401
Course Notes: No addiitonal credit granted for 'BIG DATA ANALYTICS

INFS 415 - BUSINESS ANALYTICS AND STATISTICAL INFERENCING MODELS
Business decision-making often relies on analysis of quantitative data for support. Transforming quantitative data into valued information in support of decision-making often involves various aspects of mathematical analysis, including probability, descriptive and predictive statistics, and optimization modeling. This course addresses the fundamental concepts of the emerging field of business analytics and provides vital tools in understanding how data analysis works in today's organization.
Credits: 3
Prerequisites: INFS 401

INFS 417 - PREDICTIVE BUSINESS DATA ANALYTICS
Predictive analytics is the process of discovering interesting and meaningful patterns in data. This course focuses on using data-driven algorithms and induction algorithms to reveal patterns and trends from business data. This course also uses the language "R" to manage data. Various techniques such as Market Basket Analysis, K-means clustering, Classifications using Decision Trees and Rules, Nearest Neighbors classifications and Specialized Machine Learning.
Credits: 3
Prerequisites: INFS 401

INFS 421 - ACCOUNTING INFORMATIONS SYSTEMS
Systems development and systems applications within accounting and financial areas. Topics include security, control, information needs, decision requirements, processes, techniques, and data flows.
Credits: 3

INFS 430 - GLOBAL ISSUES IN INFORMATION SYSTEMS
Information systems and technology in global settings; the study of diverse cultures, business environments, and legal issues; transborder dataflow; information systems issues arising from conducting business globally.
Credits: 2,3
Prerequisites: INFS 401

INFS 451 - DECISION SUPPORT SYSTEMS
Role of information systems in assisting management decision making to increase business effectiveness; decision support and business intelligence systems; modeling and analysis; data warehousing and data mining; artificial intelligence systems; knowledge management.
Credits: 3
Prerequisites: INFS 401

INFS 460 - INFORMATION SYSTEMS SECURITY I
This course focuses on the fundamental concepts of information systems security. Information systems security is the most important aspect of business and organizational environments. This course will explore all security issues including system authentication and access control, database security, malicious attacks and computer crime, intrusion detection, and system auditing. This course will serve as the foundation course for information systems security.
Credits: 3
Prerequisites: INFS 401

INFS 462 - INFORMATION SECURITY SYSTEMS II
This course explores security issues and counter measures related to important information assets. Topics covered include access control, risk management, data, application and network security, malicious software and other types of attacks, cryptography, and cloud security. The course considers various important aspects of relevance to information security both from the perspective of individuals and organizations. It provides the background for people interested in the information security field.
Credits: 3
Prerequisites: INFS 401

INFS 464 - SECURITY RISK MANAGEMENT AND PRACTICES
This course provides a detailed, practical view of security risk management and a definitive guide for building and/or running an information security risk management program. It explores each phase of the risk management lifecycle, and presents a roadmap for designing and implementing a security risk management program. Information systems and data center operations with special tools will be a focus in this course.
Credits: 3
Prerequisites: INFS 401

INFS 471 - MANAGEMENT OF INFORMATION SYSTEMS
Managing technologies in the digital- and knowledge-based economy; impact of information systems on business model, corporate strategy and organization; strategic information systems planning; information technology architecture; managing systems development; managing information security, information systems organization and job market.
Credits: 3
Prerequisites: INFS 401

INFS 485 - MANAGING HIGH PERFORMANCE TEAMS
This course focuses on how project managers can adopt the most appropriate leadership style under a given set of circumstances. Leading High-Performance Projects helps project managers encourage greater teaming, become more effective decision-makers, reduce incidences of negative conflict, and eliminate opportunities for 'negative energy' to permeate a project. The students will learn how to become more efficient, more effective, more productive, and consequently, more successful project managers.
Credits: 3
Prerequisites: INFS 401

INFS 488 - PROJECT MANAGEMENT
Applied approach to the study of project management. An integrative framework for understanding principles and practices of project management, including origins, applications, and philosophy. The role of project management in organizations; the use of teams in and implementation of project management practices.
Credits: 3
Prerequisites: INFS 401

INFS 490 - This course focuses on tools and systems of project management. Various systems and methods used in
This course focuses on tools and systems of project management. Various systems and methods used in project management in a variety of arenas will be discussed. Integrating the Project Management Book of Knowledge (PMBOK), this course focuses on the various tools used in project management, risk management, project planning, project scheduling, and project implementation. MS-Project is heavily used in this course to manage projects.
Credits: 3
Prerequisites: INFS 488 or MGMT 488

INFS 491 - SPECIAL TOPICS IN INFORMATION SYSTEMS
Content varies. Check class schedule for specific topics and prerequisites by clicking on the red five-digit CRN.
Credits: 3

INFS 492 - PROFESSIONAL INFORMATION SYSTEMS INTERNSHIP
A supervised professional learning experience at a business or non-profit site. Must be arranged with internship coordinator and/or program director. Maximum of 3 credit hours can be applied to graduate business program.
Credits: 1-3
Course Notes: Internship requirements vary by assignment; consent, is required by the instructor.

INFS 494 - PROJECT MANAGEMENT: TOOLS AND SYSTEMS
This course focuses on tools and systems of project management. Various systems and methods used in project management in a variety of arenas will be discussed. Integrating the Project Management Book of Knowledge (PMBOK), this course focuses on the various tools used in project management, risk management, project planning, project scheduling, and project implementation. MS-Project is heavily used in this course to manage projects.
Credits: 3
Prerequisites: INFS 488 or MGMT 488

INFS 495 - INDEPENDENT STUDY
Intensive study of a topic under the direction of an information systems faculty member. The project is selected by the student with approval of the supervising faculty member, department chair, and dean.
Credits: 1-3
Course Notes: Consent of Instructor and Academic Head

INFS 517 - CLIENT SERV DEV
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Credits: 3

INFS 521 - IT FINANCIAL MGT
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Credits: 3

INFS 550 - CLOUD COMPUTING
This course provides an introduction to cloud computing with specific consideration for architecting the Cloud environment and focusing on highly scalable (or so-called "web-scale") web applications, and enterprise applications in a hybrid environment comprising both on premises and cloud infrastructure. We will focus primarily on infrastructure and platform services, and will introduce software, as a service, from the perspective of a consuming application. The course will emphasize practical applications of cloud computing technologies, with sufficient exploration of their theoretical underpinnings to inform architectural, design, and implementation decisions.
Credits: 3

INFS 590 - CONNECT GLOBAL
In this integrative capstone course, students apply the knowledge gained in the courses of the MIS program. Students will collaborate to research, analyze, design, and document a complete IS system. Students will consult with local businesses to propose an IS design that meets the business's challenge. Students will meet with the selected business's management to discuss their requirements and the students' solutions. This real-world project will allow students to use their knowledge of databases, networking, information security, and management to facilitate global connections. (Prerequisite: Dean's consent)
Credits: 3