## 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  
Prerequisites: INFS 401

### 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 411 - SYSTEMS ANALYSIS & DESIGN
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 - SEMINAR IN INFORMATION SECURITY
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

### 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  
Prerequisites: INFS 440 and ACCT 405

### 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 440 - SYSTEMS ANALYSIS AND DESIGN
Structured analysis and logical design of business information systems. Techniques for stating and analyzing requirements. Logical design and specifications of system outputs, inputs, files, and processing. Procedures for system cost and benefit analysis. Life-cycle concept of information system development.

Credits: 3  
Prerequisites: INFS 401

### INFS 441 - SYSTEMS DESIGN & IMPLEMENTATION
Continuation of INFS 440. Proceeds from system logical design specification to program and physical system design. Topics include alternative system structures and alternative system evaluation. Design of program structures, subsystems, and user interfaces. System testing. Program implementation, conversion problems, evaluation of system, and management of information systems development.

Credits: 3  
Prerequisites: INFS 440 and 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 452 - ENTERPRISE MODELING ANALYSIS
This course addresses key concepts and techniques in enterprise modeling and analysis, which provide a structured representation of business requirement specifications of interrelated sub-models that include business objectives, processes, information, technology, people and systems. Key concepts of the International Institute of Business Analysis BABOK® knowledge areas of planning, elicitation, enterprise analysis, requirement analysis, solution assessment and validation will be explored at the extended enterprise level.

Credits: 3

### 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 475 - COMPUTER FORENSICS & AUDITING
Computer fraud is pervasive in society and the business world today. Study of specific cases where computer fraud has occurred; focus on IT auditing and computer forensics.

Credits: 3  
Course Notes: 3 sh Accounting and 3 sh Information Systems, or computer courses.

### 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. Cross-listed with MGMT 488.

Credits: 3  
Prerequisites: INFS 401
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
Attributes: Transformational Service Learning
Course Notes: Internship requirements vary by assignment; consent, is required by the Internship Coordinator, George, Seyk at gseyk@roosevelt.edu.

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