

INFORMATION TECHNOLOGY MANAGEMENT

ITM

Department of Accounting and Information Systems Eli Broad College of Business and The Eli Broad Graduate School of Management

309 Business Information Systems and Technology

Fall, Spring, Summer. 3(3-0) P: CSE 101 or concurrently R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and not open to students in the School of Hospitality Business. SA: BUS 309

Role of information technology in enabling improvements in global business performance. Use of business process innovations and effective technology solutions in creating value for organizations.

311 Systems Analysis and Design

Fall, Spring. 3(3-0) R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Information Technology Specialization and not open to students in the School of Hospitality Business.

Structured analysis and design of information systems. Understanding of the system development process, and organizational issues associated with the design and implementation of information systems.

412 Marketing Technology and Analytics

Spring. 3(3-0) Interdepartmental with Marketing. Administered by Marketing. P: (MKT 300 or MKT 327) and MKT 317 and ITM 309 R: Open to juniors or seniors in the Eli Broad College of Business and The Eli Broad Graduate School of Management and open to masters students in the Marketing Research major. SA: MSC 412

Collection and analysis of information from the web, including web-based surveys, web analytics, online communities, blog scraping, and web spiders.

444 Information Technology Project Management

Spring. 3(3-0) Interdepartmental with Computer Science and Engineering and Telecommunication. Administered by Information Technology Management. P: ITM 311 R: Open to students in the Information Technology Specialization.

Practical training and experiences in design, testing, and launch of new information technologies and systems.

490 Independent Study in Information Technology

Fall, Spring, Summer. 1 to 4 credits. P: ITM 309 R: Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

Directed study in information technology under faculty supervision.

491 Special Topics in Information Technology

Fall, Spring. 1 to 4 credits. P: ITM 309 R: Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

Current topics in information technology.

818 Introduction to Business Analytics

Fall. 3(3-0) R: Open to graduate students. Approval of department.

Importance of digitized business processes and data analytics are essential to the performance and competitive advantage of a modern corporation. Different approaches for strategic data management and business analytics. Real-world cases of successes and failures with analytics-based business strategies.

821 Enterprise Database Systems

Fall. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open to masters students in the Accounting major or approval of department. Not open to students with credit in ACC 321.

Management of information in business organizations. Conceptual modeling of transaction process systems, workflow systems and enterprise-wide networks of value-added activities. Integration of decision support and policy level systems with economic event processing systems. Evolution of accounting systems.

822 Information Systems Project Management

Fall, Spring. 1 to 3 credits. Interdepartmental with Accounting. Administered by Accounting. R: Open to graduate students in the Accounting major and open to MBA students or approval of department.

Management of information system projects. Modeling of business processes. Management of project scope, time and costs. Planning and control of projects. Program and portfolio management. Consulting issues for effective project management.

823 Advanced Enterprise Database Systems

Spring. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. P: ACC 321 or ACC 821 or ITM 821 R: Open to graduate students in the Accounting major or approval of department.

Architecture of enterprise information. Semantic and syntactic modeling of enterprise economic phenomena, relational database technology and database design for business systems, business process analysis patterns and implementation compromises.

824 Governance and Control of Enterprise Systems

Fall, Spring. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open to graduate students in the Accounting major or in the Master of Business Administration in Business Administration or approval of department.

Governance and control of information technologies. Identification and valuation of key information and communication technologies, frameworks for assessing information system risk, information system auditing, and international standards for information technology governance and control.

825 Object-Oriented Business Information Systems

Fall. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. P: ACC 321 or ACC 821 R: Open to graduate students in the Accounting major or approval of department.

Analysis and design of object-oriented business systems. Unified modeling language descriptions of business phenomena and rules, object-oriented programming, use-case analysis and specifications, and XML tag sets for transactions and reporting.

826 Enterprise Information Systems

Spring. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open to graduate students in the Accounting major or in the Master of Business Administration in Business Administration or approval of department.

Enterprise resource planning (ERP) systems. ERP implementation issues and success factors. Use of enterprise systems, and exploring future directions in ERP systems.

881 Network Analytics

Fall, Spring, Summer. 1 to 3 credits. P: MKT 829 or MBA 820 R: Open to masters students in the Business Analytics Major or approval of department.

Application of network analysis in business contexts. Basic methods and terminology associated with network analysis and text analytics leading to broad-based applications. Applications of these techniques span a broad range of business contexts including human resource management, customer relationship management systems, supplier networks, and online networks.

882 Analytics Practicum

Summer. 3 credits. R: Approval of department.

Supervised analytics practicum. The design, analysis, execution, and presentation of an analytics project.

888 Capstone: Business Analytics

Fall. 3(3-0) R: Approval of department.

Practicum in the development and delivery of predictive data analysis for strategic decision making in organizations. Application of the principles and tools of analytics to real-world problems in research and development, marketing, supply chain, accounting, finance and human resources management. Development and presentation of analytical insights and recommendations.

890 Independent Study

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management. Approval of department.

Faculty-supervised independent study.

891 Special Topics in Information Technology Management

Fall. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.

Selected topics in current and emerging issues related to information technology management.

893 Business Analytics Internship

Summer. 1 to 3 credits. R: Open to masters students in the Business Analytics Major or approval of department.

Professional internship in a public, industrial, or governmental organization where one or more business analytics projects are performed under faculty supervision.

911 Doctoral Seminar in Information Systems

Fall. 3(3-0) RB: Master's degree in business, computer science, telecommunication or engineering.

Seminar in management information systems for new doctoral students and researchers new to the field.

912 Information Technology Transactional Perspectives

Spring of even years. 3(3-0) Interdepartmental with Telecommunication. Administered by Information Technology Management. RB: Graduate level microeconomics course R: Open to doctoral students.

Multiple perspectives on relationships between organizations and information technology. Information processing, communications and management strategy approaches. Economic perspectives.

913 Seminar in Information Systems Design Science

Spring of odd years. 3(3-0) RB: ITM 911

Research in design science in information systems. Ontological issues in design science research.

914 Behavioral Aspects of Information Systems

Fall. 3(3-0) RB: Two prior courses in information systems. R: Open to graduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or approval of college.

Information systems theory from a behavioral and social science perspective.

915 Seminar in Information Systems and Networks

Spring of odd years. 3(3-0) RB: ITM 911 R: Open to doctoral students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

Research in social networks in information systems.

917 Research Methods in Information Systems

Fall. 3(3-0) RB: (MSC 905) or graduate courses in Philosophy of Science, Intermediate Statistics. R: Open to graduate students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the College of Communication Arts and Sciences or approval of college.

Research methodologies utilized to study information systems phenomena from social science, computational science, and clinical approaches. Critique information systems literature from various methodological perspectives.