

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.

322 Technological Entrepreneurship

Fall. 3(3-0) R: Open to juniors or seniors in the Information Technology Specialization and open to students in the Entrepreneurship Specialization.

Models of technological innovation. Principles and hands-on practice for entrepreneurial ventures using technology, particularly the Internet and information technologies.

412 Marketing Technology and Analytics

Spring. 3(3-0) Interdepartmental with Marketing. Administered by Marketing. P: MKT 300 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 or in the Information Technology Specialization. SA: MSC 412

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

414 Enterprise Resource Planning Systems

Spring. 3(3-0) P: ITM 311 and ITM 309 R: Open to students in the Eli Broad College of Business and The Eli Broad Graduate School of Management.

Analysis, design and use of enterprise systems. Importance of enterprise system fit and re-engineering of the enterprise. Implementation risks and organizational returns. Use of enterprise software.

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 seniors 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.

821 Enterprise Database Systems

Fall. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open to master's 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. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open to graduate students in the Accounting major and open to MBA students or approval of department. Not open to students with credit in ITM 311.

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.

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.

Information Technology Management—ITM

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.