

**INFORMATION  
TECHNOLOGY  
MANAGEMENT**

**ITM**

**The 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:M: CSE 101 or concurrently R: Open only to juniors or seniors in The Eli Broad College of Business. Not open to students in The School of Hospitality Business. SA: BUS 309  
Role of information technology in shaping and supporting business processes in a global marketplace. Effects on organizations and individuals.
- 311 Systems Analysis and Design**  
Fall. 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 Information Technology Specialization and not open to students in the School of Hospitality Business.  
Structured analysis and design of information systems. Use of computer aided software engineering tools. Consulting issues associated with the design and implementation of information systems.
- 412 Marketing Technology and E-Commerce**  
Fall, Spring. 3(3-0) Interdepartmental with Marketing and Supply Chain Management. Administered by Marketing and Supply Chain Management. P:M: MSC 300 and MSC 317 and ITM 309 RB: Programs in which MSC 412 is a catalog-listed requirement. R: Open only to juniors or seniors in the Eli Broad College of Business.  
Enabler technologies and their role in creating marketing opportunities, efficiencies, and innovations. Tools, applications, platforms, and infrastructures. Determination of business configurations that foster value creation from enabler technologies.
- 413 Fundamentals of Database Information Systems**  
Fall, Spring. 3(3-0) R: Open only to juniors or seniors in The Eli Broad College of Business. Not open to students in The School of Hospitality Business. C: ITM 311 concurrently.  
Semantic and syntactic modeling of business requirements for databases. Specificational and navigational processing of databases. Database design parameters for business use.
- 414 Enterprise Resource Planning Systems**  
Spring. 3(3-0) P:M: ITM 311 and ITM 309 R: Open only to students in the College of Business.  
Analysis, design and use of enterprise systems. Importance of enterprise system fit and reengineering 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:M: ITM 311 R: Open only to seniors in the Specialization in Information Technology.  
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:M: ITM 309 R: Open only to students in the College of Business.  
Directed study in information technology under faculty supervision.
- 491 Special Topics in Information Technology**  
Fall, Spring. 1 to 4 credits. P:M: ITM 309 R: Open only to students in the College of Business.  
Current topics in information technology.
- 814 Decision Support Systems in Business**  
Fall. 3(3-0) Interdepartmental with Marketing and Supply Chain Management. Administered by Information Technology Management. P:M: MBA 823 or ITM 309  
Computer-based managerial decision support systems (DSS). Basic system architectures for DSS. Individual and group systems. Data-driven and intelligence (model) driven systems. Project analysis of a globally distributed system.
- 821 Enterprise Database Systems**  
Fall. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open only to MBA students and 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 processing systems, workflow systems, and enterprise-wide networks of value-added activities. Integration of decision support and policy level systems with economic event processing systems. Information system implementation.
- 822 Analysis and Design of Enterprise Systems**  
Fall. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open only to MBA students and master's students in the Accounting major or approval of department. Not open to students with credit in ITM 311.  
Structured analysis and design of enterprise information systems. Use of computer-aided software design tools. Consulting issues associated with the design and implementation of information systems.
- 823 Advanced Enterprise Database Systems**  
Fall. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. P:M: ACC 321 or ACC 821 or ITM 821 R: Open only to MBA students and master's students in the Accounting major or approval of department.  
Enterprise information architectures. 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 Digital Business Models and Processes**  
Spring. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open only to MBA students and master's students in the Accounting major or approval of department.  
Frameworks for linking information technologies with business performance. Identification and valuation of key information technologies. Information Technology (IT) enabled business models, organizational processes, and knowledge management systems.
- 825 Object-Oriented Business Information Systems**  
Spring. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. P:M: ACC 823 or ITM 823 R: Open only to MBA students and master's 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 specification. XML tag sets for transactions and reporting.
- 826 Enterprise Information Systems**  
Spring. 3(3-0) Interdepartmental with Accounting. Administered by Accounting. R: Open only to MBA students and master's students in the Accounting major or approval of department. Not open to students with credit in ITM 414.  
Analysis, design and use of enterprise systems. Importance of enterprise system fit and reengineering of the enterprise. Implementation risks and organizational returns. Use of enterprise software.
- 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 only 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 doctoral students in the College of Business 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 only to doctoral students in the College of Business or 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.