

INFORMATION TECHNOLOGY MANAGEMENT (ITM)

ITM 5930 - Special Topics

3 Credits (Repeatable for credit)

ITM 5980 - Graduate Independent Study in Information Technology Management

1-3 Credits

ITM 6000 - Managing Information Technology

3 Credits

This course describes the role of IT in organizational strategy. Topics covered include cloud base technologies, Internet applications and emerging technologies. This course emphasizes the concepts underlying enterprise systems and identifies challenges in managing security and risks in IT infrastructure.

Attributes: MBA Breadth

ITM 6005 - Supply, Demand, and Technology

3 Credits

This course describes the role of supply, demand, and technology in managing businesses. It has two parts. The first part focuses on concepts useful in efficiently managing the transformation of materials, labor, and capital into products or services. Topics covered include: the role of operations management in overall competitive strategy, key performance measures, and tools for improving operations performance. The level of discussion varies from long-term strategic planning to daily control of business processes. Students will understand the role operations management plays in business processes. The second part focuses on the role of technology in organizational strategy.

ITM 6300 - Database Management Systems

3 Credits

Course provides an overall understanding of database techniques, beginning with a study of the characteristics of relational database management systems and continuing with structured query language (SQL), entity-relationship diagrams, dependencies and normalization, and multi-user systems. Evolving approaches to database management, such as object-oriented database, will also be examined. Projects will require the student to develop a database design from the analysis stages to the final implementation by utilizing various design tools and a DBMS package such as Oracle.

Attributes: MBA Information Tech Mgmt Conc

ITM 6400 - Applied Business Analytics

3 Credits

This course provides necessary skills for business managers to apply Business Analytics tools for data analysis and business decision making. This course focuses on developing skills and knowledge in creating analytics solutions such as Business Intelligence Dashboards. Using hands on tutorials and case studies, students will learn and demonstrate application of analytics skills in multiple business domains.

Attributes: Applied Fin Econ Elective, MBA Required

ITM 6450 - Decision Making with Enterprise Systems

3 Credits

This course will focus on developing and implementing business strategies in a simulated market using ERP systems. Students will learn how to conduct data visualization and business analytics using business data generated in SAP ERP and derive operational, tactical, and strategic decisions from the data. The classroom experience is the center of the course. The course will use tools such as SAP ERP, R Studio, Excel, and Tableau to apply visualization and analytic techniques. Students will also gain exposure to process modeling and the managerial issues related to business process integration, such as change management during SAP implementation.

Attributes: MBA Information Tech Mgmt Conc

ITM 6500 - Managing Cybersecurity in Organizations

3 Credits

This course will help students to develop the skills required to manage a cybersecurity program to effectively cope with rising threats. The course is designed primarily for MBA students who will become managers or business professionals in a network e-business enterprise. Offered fall and spring.

Attributes: MBA Information Tech Mgmt Conc

ITM 6550 - Big Data in Organizations

3 Credits

Through lectures, guest speaking series, readings, practical techniques, real-world examples, and hands-on exercises, we will explore the Big Data landscape, its ecosystem, market players, technologies involved, open source software and programs, methodology, step-by-step approach, to begin a corporate strategy around big data. We will show how to decompose current business strategies in order to link big data initiatives to the organization's value creation processes, and identify big data use cases. This course will help students understand the essentials of Big Data, directing them to various tools that can facilitate the big data usage in their organizations, and prepare them to be valuable Big Data professionals.

Attributes: MBA Information Tech Mgmt Conc

ITM 6700 - Advanced Business Analytics

3 Credits

Business Analytics is the art of analyzing business data for decision making. Business analytics can be used to: predict future events, test alternative business scenarios, and monitor business performances. Advanced Business Analytics consists of using techniques and technologies such as Machine Learning to extract meaningful insights from raw data to quickly solve complex, data-rich business problems. Machine Learning can increase the power of decision making by extracting insights from large data. In this course, using R, students will learn the core concepts and different techniques of machine learning and related technologies.

Prerequisite(s): ITM 6400

ITM 6930 - Special Topics

3 Credits (Repeatable for credit)

Attributes: MBA Information Tech Mgmt Conc

ITM 6980 - Graduate Independent Study in Information Technology Management

1 or 3 Credits (Repeatable for credit)