

INFORMATION TECHNOLOGY MGT (ITM)

ITM 305 Introduction to Computer-Based Information Systems 4 credits

Students will analyze how hardware, software, and people interact to help carry out a business strategy. This analysis will be built on a study of system's architecture used to support system-wide computer based applications such as Enterprise Resource Planning(ERP) and Customer Relationship Management (CRM).

ITM 312 Harnessing Personal Innovation 4 credits

Utilize reflective tools and course feedback to examine individual strengths and opportunities for growth as a writer and communicator. Harness this self-awareness to develop a personalized strategic plan that clarifies each student's unique ability to collaborate on teams and innovate for the organization. Begin comparing the effectiveness and efficiency of various electronic and face to face communication strategies amidst a contemporary exploration of technology's global impact on business.

ITM 325 Business Management for Information Technology 4 credits

Conduct an in-depth examination of the characteristics of a business and the circumstances that affect their success. Explore varying activities and styles of managers within organizations to develop an effective personal style for managing technology as a business-savvy professional. Study ways to enhance the effectiveness and efficiency of application development and operations management teams. Topics include managing change, compliance, finances, marketing, business intelligence, and frameworks for technology service delivery such as the Information Technology Infrastructure Library (ITIL) and the Control Objectives for Information and related Technology (COBIT).

ITM 342 Project and Lifecycle Management 4 credits

Channel effective project management skills to innovate and deliver on business strategy. Utilize a project management simulation to study planning, scheduling, and tracking techniques for effective project management. Apply learning to a draft of the following deliverables for the student's own Applied Research Project: 1) project scope/ charter, 2) work breakdown structure, 3) cost-benefit analysis, 4) project schedule, 5) risk register, and 6) quality management plan. Identify the relationships between IT operations, project management and other value-chain functions that manage internal and external relationships among partners, vendors, and outsourcers. Explore the impact of operations management on a firm's competitiveness and management of IT resources.

ITM 351 Bridging the Technology-Business Gap 4 credits

Compare technical to non-technical staff in studying ways to build collaborative effectiveness for the business. Investigate sources of power from the local to global setting to better understand how power can be lost or gained within an organization. Empower each employee with defined outcomes and the right organizational fit. Utilize collaborative software tools to practice communicating virtually across diverse settings and maximize teamwork to deliver on business strategy.

ITM 400 Bridging the IT Business Gap for Innovation 4 credits

Explore how to lead and manage collaborative teams of technical and non-technical workers to deliver business strategy. Use reflective tools to examine individual strengths for personal and professional growth. Learn to use collaborative software tools to work on team projects and to improve in confidence and credibility as an information-literate critical thinker in conducting research, writing, communicating, and presenting. Minimize the barriers to successful intercultural communication by using various tools for teamwork in local and global settings. (Prerequisites: Minimum grade of C- in BUS 388)

ITM 402 Strategic Project Management for IT 4 credits

Learn to deliver on new ideas and strategies by practicing traditional and agile methodologies and processes that help bring new products and services to the market. Build on differing strategic approaches and project management techniques to manage innovation so that competitive strategy and new ideas can be realized. Gain skills, through an applied research project, in gathering requirements, applying appropriate methodologies, and utilizing various deliverables to crystalize a measurable objective, perform a cost-benefit analysis, connect to business strategy, and identify constraints. (Prerequisites: Minimum grade of C- in BUS 388)

ITM 410 Business-Driven Information Systems and Security 4 credits

Learn how information systems are designed to interact with people and carry out business strategy. Examine enterprise-wide applications, the infrastructure necessary to support these applications, and important implications for security and privacy. Topics include business continuity and disaster recovery, virtualization, and the effects of compliance on infrastructure development (e.g. HIPPA, SOX, GLBA). (Prerequisites: Minimum grade of C- in BUS 388)

ITM 420 Applied Systems Analysis and Design 4 credits

Study all phases of the project lifecycle with an emphasis on creating a first draft for the Planning and Analysis phases of the student's Applied Research Project. Utilize contemporary case studies such as mobile applications development to compare software and infrastructure development methodologies such as the Systems Development Lifecycle and Agile Methods. Create a common understanding of project requirements by interviewing key stakeholders and diagramming to communicate process workflow. Apply learned skills to key decision-making tasks such as in-house development, outsourcing, software testing, business requirements gathering, and Cloud Computing.

ITM 421 Business Strategy and Technology Innovation 4 credits

Examine strategies that businesses use to be competitive in the marketplace. Determine how tactical strategies for technology support the business strategy. Practice working in teams to develop techniques for innovation management of technologies.

ITM 425 Data Management for Intelligent Business 4 credits

Learn to use business strategy and data-based applications as a foundation for making intelligent business decisions. Examine the normalization process, through team and individual work, to minimize the potential for losing customers through redundant and/or inaccurate data. Study the Structured Query Language (SQL), data warehouse team-building, de-normalization, and data-mining for faster access to operational and strategic information leading to a potential competitive advantage. (Prerequisites: Minimum grade of C- in BUS 388)

ITM 435 Business Ethics for Information Technology 4 credits

The conduct of technical and business professionals is considered from a moral and ethical perspective. Students develop their capability and depth as a reflective practitioner by using a rich framework for processing ethical decisions. A rare opportunity is provided to prepare a personal moral and ethical statement as a foundation for future decision-making.

ITM 440 Applied Research Project 4 credits

Learn to integrate business and technological knowledge to address an actual worksite need or problem. Through a capstone project gain experience in problem identification, solution selection, cost-benefit analysis, requirements gathering, options analysis, and success measurement. Students must hold senior standing and have successfully completed all other program course requirements before registering for this course. (Prerequisites: Minimum grade of C- in ITM 400, ITM 402, ITM 410, and ITM 425)

ITM 500 Business Strategy 3 credits

Examine the interaction between information technology and business strategy to create innovative and sustainable competitive advantage. Learn to ethically apply these insights to develop and advance organizational mission and vision. This course draws upon current work, training or internship experience.

ITM 505 Ethics in Technology Management 3 credits

Explore real-world information technology dilemmas and frameworks to identify ethical problems and reach ethical decisions. Use these skills, grounded in ethical theory, to make informed decisions within fast-paced and emerging business environments. This course draws upon current work, training or internship experience.

ITM 510 Research in Information Technology 3 credits

As part of a research project identify the critical role I.T. plays in organizational development. This course will explore how to employ action learning to improve the competitiveness of the organization. Defining IT challenges from an operational and strategic perspective the class will explore adaptive learning technique by offering proven educational theories and practices to foster the required changes in your staff. Research of existing organizational learning theories and the historical problems that occur with companies will be conducted to understand how to research these issues and provide solutions for technology enablement of the business. This course draws upon current work, training or internship experience.

ITM 515 Strategic Communication 3 credits

Learn effective communication strategies and skills necessary for success in real-world business settings. Develop authentic communication skills, central to strategic innovation, to ethically advance corporate strategy.

ITM 520 Financial Analysis for Technology Managers 3 credits

Learn financial tools leaders use to create value as they make technology decisions for their organizations. Apply these tools to business cases from the technology industry to increase skills in making data informed decisions. This course draws upon current work, training or internship experience.

ITM 525 Managing Technology Teams 3 credits

Develop skills to ethically lead and manage technology teams in evolving business environments. Explore how to select, motivate, and support teams to meet operational and strategic goals within a dynamic organizational culture. This course draws upon current work, training or internship experience.

ITM 530 Leadership Information Technology 3 credits

Explore leadership essentials, proven effective within the technology sector and beyond, and learn to distinguish when to lead and when to manage. Use these skills, recognizing leaders are found at all organizational levels, to ethically lead change and innovation. This course draws upon current work, training or internship experience.

ITM 535 Business Intelligence and Data Analytics 3 credits

Understand and describe the business intelligence (BI) methodology and concepts as well as the various types of analytics. Explore, analyze and visualize the data necessary for managerial decision making. Explore emerging technologies and their impact on analytics, BI, and business decision support. This course draws upon current work, training, or internship experience.

ITM 540 Information Security 3 credits

Analyze how information systems are designed to interact with people and carry out ethical business strategy. Design plans to secure enterprise-wide data and applications in a growing mobile environment. Assess risk and manage quality in working to meet auditing and compliance standards. Topics include business continuity and disaster recovery, virtualization, and the effects of compliance on infrastructure development. This course draws upon current work, training or internship experience.

ITM 545 Project Management 3 credits

Analyze the different methods of project management, tools and techniques necessary in the technology environment. Schedule, risk, quality, communication, stakeholder, technical team and resource management skills will be demonstrated through case study application and simulation. This course draws upon current work, training or internship experience.

ITM 550 Technology Management and Innovation 3 credits

Utilize contemporary case studies to compare software and infrastructure development methodologies such as the Systems Development Lifecycle to Agile Methods. Apply learned skills to key decision-making tasks such as in-house development, outsourcing, software testing, and cloud computing. This course draws upon current work, training or internship experience.

ITM 555 IT Management Capstone 3 credits

Integrate tools and techniques learned throughout the program. Demonstrate knowledge obtained by planning a project for implementation in industry. Ethically incorporate technical and business leadership skills through documented approaches to managing a technical product or process improvement while leading people through the changes brought by its implementation. This course draws upon current work, training or internship experience.