IT Leadership Graduate Certificate

ITM 700: Communications for IT Professionals
3 Credits

This course focuses on developing organizational communication skills for IT professionals. Topics include crucial conversations, evidence-based decision making, and change management strategies for organizational transformation. This course also emphasizes the development of organizational and interpersonal communication skills relating to cultural sensitivity, diversity, and ethical issues in the IT field.

ITM 700 Syllabus

ITM 705: Leading the IT Function
3 Credits

This course focuses on the difference between and application of management and leadership theories in an IT environment. Utilizing an array of assessment activities, students will identify and
understand their own personal assets and liabilities to become effective leaders and agents of change in a complex adaptive system.

ITM 705 Syllabus

ITM 710: Finance for IT Managers
3 Credits

Frame financial decisions within general and project accounting principles. Topics include: pro forma financial statements, time value of money, cash flows and equivalence, depreciation, net present value, rate of return, and ratio analysis. Prepare budgets that prioritize projects within constraints, address uncertainty and intangibles, and integrate with project scheduling.

ITM 710 Syllabus

Enterprise Infrastructure Graduate Certificate

ITM 715: Data Science
3 Credits

Addresses issues for developing, managing and supporting data-driven decision-making in the organization. Topics include data analytics, data warehousing, machine learning, and artificial intelligence, as well as the ethical collection, use and application of data.

ITM 715 Syllabus

ITM 720: Cloud Computing and Enterprise Applications
3 Credits

Leverage cloud services to streamline computing resources, deploy enterprise applications, improve user access and system reliability, and utilize advanced computing capabilities. Foundation concepts include virtualization, multi-tenant architecture, and software-defined networking. Examines the full range of services available to organizations along with deployment strategies, evaluation criteria, economic justification, and manageability.

ITM 720 Syllabus

ITM 725: Enterprise Security   **3 Credits**

The enterprise security management course explores various technical, administrative, and physical aspects of IT security. The course seeks to investigate various security threats and apply various concepts to the design of information, network and physical security. Students are exposed to the evaluation of business processes associated with managing risks, business continuity, audit, and security challenges in software development.
ITM 725 Syllabus

IT Operations Graduate Certificate

ITM 730: Agile and Traditional IT Project Management   **3 Credits**

Examines project management concepts as applied to IT projects; covers traditional PMBOK techniques such as project identification, selection, procurement, and cost/schedule preparation and monitoring. Introduces agile IT project management concepts including Scrum and Extreme Programming. Requires students to apply these concepts to group projects.
ITM 730 Syllabus

ITM 735: Business Analysis and System Development   **3 Credits**

This course focuses on the importance, role, and techniques of the business analysis function in the modern IT organization. The course is organized around the six knowledge areas and associated techniques of the Business Analysis Body of Knowledge (BABOK) specified by the International Institute of Business Analysis.
ITM 735 Syllabus

ITM 740: IT Operations   **3 Credits**

This course explores best practices and techniques for managing IT infrastructure and operational environments in support of the organization's strategic goals in the development and deployment of applications and services. Coverage includes network infrastructure; servers and devices; computer operations; service management; facilities; help desk services; DevOps; process automation; governance frameworks.
ITM 740 Syllabus

Capstone Courses

ITM 754: Capstone Preparation

1 Credits

Students work with faculty to select their capstone project, create a plan, define deliverables, secure approval from their client or employer, and complete the setup of their project and work environment. Students review concepts necessary for completion of the capstone (as applicable) in the areas of human resources, financial analysis, enterprise application management, business analysis, operations, governance, compliance, and change management. Agile project management, systems analysis, and design, and communicating with technical and non-technical audiences. Additional topics may be included.
Prerequisite:ITM 730: Agile and Traditional IT Project Management; or taken concurrently with ITM 730.
ITM 754 Syllabus

ITM 755: Capstone

3 Credits

Students complete the projects approved in the Capstone Preparation course. This course includes the management, development and delivery of an information technology project to a client or employer, including regular communication of status to both technical and non-technical audiences.
Prerequisites: ITM 754: Capstone Preparation
ITM 755 Syllabus